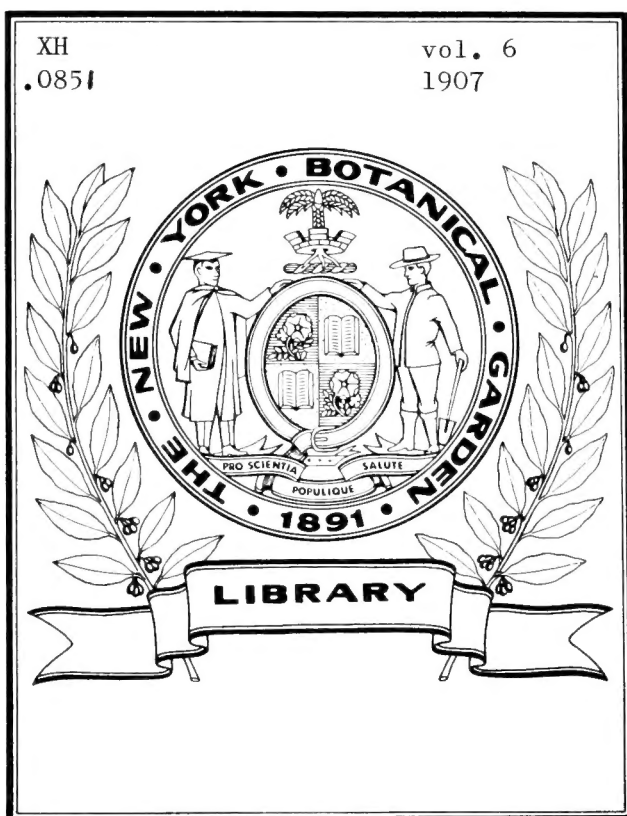


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HORTICULTURE

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HORTICULTURE

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The Maidenhair Tree

(GINKGO BILOBA)

The Maidenhair Tree, known botanically as *Ginkgo biloba* or, formerly, *Salisburia adiantifolia*, is at once one of the rarest and most beautiful of our hardy trees. Its former botanical name seemed particularly apt, as the leaves, unique in form and alluring in their charm, serve to at once remind one of the fronds of the maidenhair (*Adiantum*). I know of no tree comparable in grace and symmetry and soft coloring to a specimen of this ginkgo. The limbs and boughs are stiff and straight, while the minor shoots are of spreading growth. When the tree is in full leaf it is as though a mantle of soft green had fallen and enveloped the tree boughs, hanging in soft folds and causing the slenderer shoots to droop gracefully. There are few fine trees of it in this country, two of the best being those in the King's gardens at Windsor, and in the Royal Gardens, Kew.

The Maidenhair Tree is equally delightful in spring when the young leaves unfold—a tender green: In summer when each fern-like leaf has reached its fullness of form and color, and in autumn when, as each leaf turns, some to light, some to deep yellow, others to red or brown, the whole tree is clothed in a mass of brilliant colors. Not only for its intrinsic charm is the *Ginkgo* valued, for it has a history that is as remarkable as it is full of interest. In the first place it is monotypic, that is to say, it is the sole representative of the genus. It is also the sole representative of a type of vegetation long since extinct. Some remarks in this connection in Veitch's "Manual of Coniferae" are well worth reproduction.

"The existing species is the sole survivor of an unknown number of others widely dispersed during geological ages over what is now the temperate and colder part of the Northern Hemisphere. Fossil remains of *Ginkgo* have been discovered in systems that were in course of formation at a remote epoch of the earth's history, and show conclusively that the genus is of astonishing antiquity and that the first appearance of its ancestral form antedates that of every other existing tree by aeons of time. The *Ginkgo* thus presents to us at least one form of vegetation that flourished on the earth when it was inhabited by unwieldy *Ichthyosauri*, gigantic toads and monster *Deinotheriums*, ages before man entered upon his inheritance. If the association of the *Ginkgo* with the remote past is of a kind to excite wonder, its recent history is scarcely less a subject for surprise, for the origin of the existing species is shrouded in mystery as obscure as that of its remote ancestors. Its habitat is practically unknown. No naturalist can say that he has seen it in a wild state, and hypothesis alone suggests that it may possibly be found in some unexplored district in Eastern Mongolia. For centuries it has been preserved alive by the Chinese and Japanese who, by associating it with their religious worship and planting it near their shrines and temples have invested it with a kind of sanctity that has contributed immensely to its preservation amidst a dense population whose resources of fuel and timber have always been restricted. Thus preserved, it stands alone, a perfect stranger in the midst of recent vegetable forms."

In this country the Maidenhair Tree seems to be little planted and it is of slow growth until well established. Like many deciduous trees it will grow well in the neighborhood of large towns. The leaves as



they fall in the autumn take the sooty deposit with them and the tree starts the next year with fresh and clean foliage. There are three well marked varieties in cultivation, *macrophylla* with larger leaves than those of the type, *pendula* which has a weeping habit of growth, and *variegata*, whose leaves are blotched and streaked with yellow.

Harry H. Thomas

London, England.

Cattleya gigas

(See Frontispiece)

This summer-flowering orchid, native of Columbia, is undoubtedly one of the finest *cattleyas* known, giving the largest and the most beautifully colored flowers on spikes bearing four to ten flowers each, of immense size, sepals and petals pale rose and the lip dark, of great width, having two conspicuous eyelike yellow blotches in the throat.

The type of *Gigas* shown in the picture is what is termed the *Hardyana* type and the photograph was taken last year at the orchid nurseries of the Julius Roehrs Co., at Rutherford, N. J., it being one of the remaining plants of an importation of sixty-two cases. This particular variety must be grown as close to the light as possible and in the warmest part of the house.

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The
passing of the
wood-cut

De-lighted we should be to know that the half-tone engraving has at last killed beyond any resurrection the old-fashioned wood-cut as a seed catalogue illustration and that we have seen the last of these "ugly, inappropriate and inaccurate" old marvels. Still it is well to bear in mind that neither photograph nor the half-tone are beyond human ingenuity to mend and when it comes to inaccuracies and exaggerations there is almost no limit to the monkey-shines that may be perpetrated through these "truthful" processes.

Reform
in the "novelty"
business

Mr. McFarland's talk to the American Seed Association, on catalogue making, which appears in part in this issue, will bear reading over and over again. Whatever one's opinion may be as to the correctness of some of the essayist's views, there can be but one sentiment on the "Novelty" question, and that will be one of entire harmony with Mr. McFarland. Nothing has done more to discredit the seedsman and to discourage enthusiasm in garden making than the over drawn descriptions and bald misrepresentations which have figured in so many novelty lists in the past. Foreigners have not been the only offenders, but they have set the pace oftener than otherwise, and American dealers in their eagerness for sensationalism have been an easy mark. It is full time, as Mr. McFarland says, that the seed dealers should unite to discountenance the exploitation of novelties unworthy of the name.

The seed
catalogue as an
educator

Mr. McFarland's argument for direct dollar value in the contents of every page of a catalogue is in line with good practical business advice, but when carried to the extent of eliminating from the catalogue the time-honored department of instruction in garden operations, seed sowing, making and manufacturing hot beds, etc., it will need to be weighed carefully and due consideration given to what may be the ultimate indirect effect of devoting every page of a seed catalogue to the interests of the selling department. The educational value of the typical catalogue of the past has often been extolled and there are many who are now devoting their lives to horticultural pursuits who are wont to attribute their first incentive in the work to the allurements of some old-time seedman's catalogue. It cannot be denied that the cultural instruction in these books disseminated through millions of families has had a very far-reaching effect in the development of horticultural intelligence. Cut it out and what have we to take its place? The answer will, of course, be "The popular garden magazines of the present day." But let us not be too sure of that. Think it over.

Horticulture's
progress

With this issue begins a new volume of HORTICULTURE. A glance over the accompanying index to the contents of Volume V will, we think, convince the reader that HORTICULTURE has provided good equivalent for the trifle which the six-months' subscription has cost. A more careful perusal will impress him with the great variety of topics covered and their uniform high character and permanent value. In accordance with our avowed policy the minimum amount of space has been devoted to matters of transient interest and the pens of earnest progressive-minded men who love horticulture for horticulture's sake and who by their devotion and experience have become skilled in their art, have been freely drawn upon for the best they have been able to contribute. HORTICULTURE has made many new friends and supporters during the progress of Volume V and we will, no doubt, be pardoned even by our scoffing New York contemporary if we indulge in a little jubilation over the fact that our weekly issues show an increase of twelve to fifteen per cent. in number of advertisers and twenty to twenty-five per cent. in advertising space as compared with the corresponding issues of last year. As to the new volume which now opens the outlook justifies the most sanguine assurance. It will "make good."

British Horticulture

A NOTED ORCHARDIST

One of the most interesting collections of orchids near London is to be found in the houses of Mr. J. Gurney Fowler, chairman of the orchid committee of the Royal Horticultural Society. The collection of hybrid cattleyas is extensive and varied, including *Laelio-Cattleya Woodfordiense*, which was raised here. In the East India house there are some excellent vandas and the cypripediums are also very notable, amongst them being one of the finest specimens in England of *Eulophia* and several rare specimens of *E. Petersiana*, and *Bulbophyllum verescens*. The *odontoglossum* house is of a very elaborate character. The double staging is all teak, and there is ventilation for summer use between the two stages. The sides are built with loose bricks, pigeon-hole fashion, to keep the cold air and dry heat from entering the house direct. Every possible contrivance for perfecting ventilation and ensuring the temperature required for the cultivation of cool orchids has been introduced. The collection is of a costly nature, running into thousands of plants. Amongst the varieties are *O. amabile* (Glebeland's variety) for which an award has been received this year, *O. Wilckeanum*, *O. Ossulstonii*, and *O. Eduardii*. There are also many good specimens of *masdevallias*. The gardens have many other attractive features. Here is to be seen the only complete collection of *selaginellas*, for which a gold medal has been awarded by the Royal Horticultural Society.

GARDENERS COMBINE

The report presented at the annual meeting of the British Gardeners' Association recently gives indication of the steady progress being made by this organization during the short time it has been in existence. It has about 1,100 members, a capital of nearly £300, and the first number of the "Journal" of the Association has just appeared. At the meeting several speakers expressed the opinion that there was a reluctance on the part of many gardeners to join the Association which is regrettable whether it proceeds from apathy or from a fear of employer's displeasure. In these days of keen competition no weapon is more powerful than that of co-operation to ensure justice for the individual, but this combination need never imitate the objectionable features of the trades unions, and resort to strikes when matters of dispute arise between employers and the staff. The possibilities of the harm which could be achieved amongst costly horticultural collections if a strike were declared are incalculable. Another interesting feature of the discussion was the proposal to institute some examination whereby the professional experience and ability of a man might be tested, as it was felt that inexperienced men calling themselves gardeners did much harm to the profession, lowering the status and causing considerable loss and annoyance to em-

ployers. Conducted on sound lines, with a proper representation of both the private and commercial sections, the association should have an extremely useful career.

A RHODODENDRON DISPLAY

This week many visitors have admired the brilliant exhibition of rhododendrons made by Messrs. John Waterer and Sons, Ltd., of Bagshot, Surrey, in the Royal Botanic Society's gardens, Regent's Park. One-third of an acre was enclosed under canvas, about 2,000 rhododendrons of various heights being artistically arranged. The varieties represented numbered nearly 300, forming a good selection of the many sterling novelties which the firm have introduced in recent years. Arranged on undulating ground a pleasing effect was produced by the masses of brilliant tints, forming a splendid object lesson of the excellent displays which can be produced by a judicious arrangement of tints. Judging from the interest taken in the show the rhododendron is retaining its great popularity in this country. The demand is also being kept up, Messrs. Waterer supplying customers in all parts of the empire. The firm have lately executed an order for 20,000 plants for shipment to a client near New York, for the fame of Waterer's rhododendrons is well known in the United States. Amongst the varieties shown this week and at the Temple show were the superb Pink Pearl; Strategist, rose pink; Duke of Connaught, Duchess of Connaught, Baroness Henry Schroder, John Waterer, Gomer Waterer, Mrs. Stirling, and others.

Wm. R. Smith.

New Rose Wm. R. Smith

Wm. R. Smith is a cross between Kaiserin Augusta Victoria and Maman Cochet; this rose has every quality necessary for a first rate bedding variety in the open and also has every characteristic of a first-class summer blooming sort for use in the forcing house; it is extremely strong in growth, free in production of canes and foliage and the leafage is so firm and heavy that it resists all the diseases to which the more tender varieties are subject. We have never seen it take either black spot or mildew. The only reason of its failure as a winter forcing variety is the extreme fullness of its bloom which in form closely resembles that of Maman Cochet, being beautifully pointed while in color it is brighter than Golden Gate, being of a deep ivory white overlaid with a good bright shade of pink. We feel absolutely positive that this variety will rank quite up with the Cochets and Kaiserin as a summer bloomer either indoors or out; it originated with Mr. John Shellen of Philadelphia.

E. G. HILL.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY.

Another superb exhibition was put up on June 29 and 30 at Horticultural Hall, Boston. Roses and strawberries had the right of way in the prospectus, but peonies, campanulas and other seasonable material almost overwhelmed them. The roses were not equal in quantity or quality to some former exhibitions and in some of the classes there was but one competitor. Prizes were awarded in the various schedule classes to W. J. Clemson, Wm. Whitman, W. A. L. Bazeley, Mrs. J. L. Gardner, E. L. Lewis, Mrs. Frederick Ayer, J. G. Wright and Mrs. E. M. Gill. First prize for three blooms of a variety introduced since 1903 went to W. J. Clemson for Frau Karl Druschki and second to Mrs. H. R. Foote for Mons. Louis Ricard.

The displays of herbaceous peonies were magnificent. Conspicuous among them was George Hollis' display of thirty new varieties, composed of his own seedlings, which was awarded first prize, also a collection of Japanese singles from the same exhibitor. Dr. C. S. Minot, T. C. Thurlow Co., James McKissock, E. L. Lewis, Joseph S. Chase, E. J. Shayler, Mrs. R. Leeson and Blue Hill Nurseries were all represented by large collections. R. & J. Farquhar & Co. made a display of campanulas and peonies in combination which attracted as much admiration as any other feature of the show. Mrs. Gardner also staged campanulas and delphiniums in large numbers, and a splendid effect was produced by a group of large bougainvilleas and orchids from Mrs. Leeson. Blue Hill Nurseries and F. J. Rea sent, as usual, interesting collections of border perennials.

The following special awards were made:

First Class Certificates of Merit: James Cartwright, superior cultivation of *Oncidium splachelatum*; J. E. Rothwell, American seedling *Cypripedium* Emil Johansson; James McKissock, new Peony Rosa Bonheur.

Honorable Mention: J. Lawson, culture of *Crassula coccinea*; Wm. Whitman, display of *Digitalis*; Geo. Hollis, seedling Peony Geo. Hollis; Dr. Charles S. Minot, new Peony M. Charles Levique; F. J. Rea, Iris *orientalis* Snow Queen; E. J. Shayler, seedling Peony No. 2.

In strawberries, G. V. Fletcher, Wilfrid Wheeler, I. E. Coburn, S. H. Warren and John Ward were the main exhibitors. The fruit was of splendid quality, the principal varieties staged being Marshall, McKinley, Sample, Brandywine, Haverland, Minute Man and Abington, the last named variety taking both first and second prizes for one quart of any variety introduced since 1903. In the vegetable section beets, cabbages, carrots, cucumbers, lettuce, peas, onions, etc., were seen in generous array.

ST. LOUIS FLORIST CLUB.

The smoker given by the St. Louis Florist Club on last Saturday night to celebrate its 20th anniversary was a great success and the trustees, Messrs. Smith, Beyer and Weber, are to be congratulated for having arranged such a good time for the members. Seventy-five members, including a few florists who are not members, attended.

There was plenty of everything to eat, drink and smoke for all. At 9 o'clock J. J. Beneke who was chosen chairman of the evening, opened the entertainment with a few well-chosen remarks and called on the band for the opening overture. Then president H. C. Irish, was called upon to welcome the guests. Luther Armstrong followed in response, taking for his subject the first meeting of this club 20 years ago. He was followed by all the ex-presidents in rotation, those present being F. Fillmore, J. W. Kunz, E. W. Guy, C. C. Sanders, J. F. Ammann and J. J. Beneke. After more music and songs James S. Wilson, W. C. Young, John Connor, Frank Weber, H. Lohrenz, S. Kehrmann, W. J. Pilcher and Ed Dearker followed with short talks and the rest of the evening was taken up with singing and stories by Frank Fillmore and others. The party broke up only after the clock had struck one.

Through the courtesy of Secretary Beneke we have been furnished with some valuable data regarding the history of this club which is crowded out this week but which we shall take pleasure in publishing in full in our next issue.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

The date of the annual meeting to be held at Toronto has been changed to August 15th, 16th and 17th, with headquarters at Queens Hotel. The business meetings will be held in the City Hall.

The following provisional program has been arranged:

August 15th, Morning.—Reception of visitors and address of welcome by the Mayor of Toronto.

August 15th, Afternoon, 2 P. M.—Drive through city parks, etc.

August 15th, Evening.—Business: Reading of papers and discussion thereon.

August 16th, Morning, 9.30 A. M.—Automobile trip.

August 16th, Afternoon.—2 P. M., trip by boat around Toronto Island; 5 P. M., luncheon at Island Park.

August 16th, Evening.—Business meeting.

Arrangements are not fully made for August 17th at this time. Papers and discussions will be features of the business sessions.

F. L. MULFORD, Sec'y-Treas.

WORCESTER COUNTY (MASS.) HORTICULTURAL SOCIETY.

The exhibition held June 27 by the Worcester Horticultural Society was one of great interest, as there was there shown one of the finest displays of peonies ever seen in the hall. Ellwanger & Barry of Rochester, N. Y., staged a table of standard sorts which stood their journey well. The winners of prizes for peonies were Pres. Hadwen, Messrs. Marble, Breed, Fisher and Hixon. There was also a large display of perennial flowers.

The last two exhibitions have been well attended, and although the backward season has prevented the exhibitors from living up to the schedule, the general display has been excellent.

NEW ORLEANS HORTICULTURAL SOCIETY.

The monthly meeting of the New Orleans Horticultural Society was held at Kolb's Halls on June 20th, Mr. Otto Abele presiding; C. R. Banter, secretary; John Eblen, treasurer, at their respective stations.

The committee on chrysanthemum show, through Mr. E. Baker reported progress, stating that at the next meeting a detailed report would be rendered. It was desired to dispense with the annual outing this year owing to the expenses incurred at the convention of Southern florists.

Nominations of officers for the ensuing year were then made: for president, Chas. Eble; vice-presidents, A. Alost, H. Cook, C. Ory; secretary, Chas. R. Panter; treasurer, John Eblen.

Chas. Eble exhibited some fronds of a new variety of *nephrolepis*. A sport from Anna Foster which, from samples, is one of the finest of the *nephrolepis* family. R. Eichling of the U. J. Virgin establishment exhibited some magnificent *Lilium Harrisii* grown from cold storage bulbs.

The next meeting of the society will be held July 18, when the election of officers will take place.

CHAS. R. PANTER, Secretary.

HUNTINGTON HORTICULTURAL SOCIETY.

The annual rose and strawberry exhibition of this society was held on June 27 with about 100 exhibits in flowers and a dozen varieties of strawberries. Walter Jennings, Richard Cartwright gardener, August Heckscher, Adolph Allus gardener, W. J. Matheson, James Kirby gardener, led as prize winners. George Taylor, Edward Gildersleeve gardener, W. W. Sharpe, Peter Mee gardener, John Cartledge, C. Halkan gardener, Miss Cornelia Prime, J. Merrier gardener, shared the honors in strawberries and K. J. Kelley, A. Tighs gardener, Wm. O'Hara, O. E. Schmidt, T. Caley gardener, received awards *prix* for roses. H. T. & A. H. Funnell were first with peonies. Special prizes were awarded to A. Heckscher for palms and Miss Emma Paulding for lilies.

ELBERON HORTICULTURAL SOCIETY.

This society held a rose and strawberry show on June 24 instead of the 17th as previously arranged. Considering the backward season the exhibition was a success. The principal prize winners in the section for cut roses were J. Kennedy, A. Grieb, W. Swain, B. Wychoff, and A. Bauer. In the strawberry section the winners were J. Kennedy, W. Swain, A. Bauer. In the classes for vegetables, H. Wood, A. Grieb, F. Dettlinger and R. Kennedy were the successful exhibitors. W. D. Robertson was first for the best vase of sweet peas.

The society will hold its second annual summer show in the new Casino, Long Branch, on July 24 and 25. There is every indication that the exhibition will be a success.

THE TWENTIETH CENTURY SEED CATALOGUE.

Synopsis of an address delivered before the American Seed Trade Association in New York, June 26, 1907, by J. Horace McFarland.

Old-Time Methods.

No one will dispute my claim that the primary purpose of a Twentieth Century Seed Catalogue is to sell seeds and the accompanying merchandise handled by the seedsman. Yet the time is not yet out of mind for some of us when the selling purpose was not so apparent, and when pictures of the not-for-sale proprietor, or his hardly-for-sale home, or his selling headquarters, took up much space in the catalogues of that day. And when the catalogues of a generation since did get down to seeds, both descriptions and illustrations tended to extravagance, with some notable and honorable exceptions. I well remember the complaint of a well-known illustrator of that time, when he showed me the yet unengraved wood block of a watermelon field which had been returned to him by a customer because there were not enough melons in the field. "I'll plant them so thick he couldn't walk in the field without stepping on them, and that will satisfy him," said the artist. And so he did, and I saw the wonderful result not long after in full catalogue glory! But that was almost a generation ago. Nowadays exaggeration does not prevail so considerably, I am glad to say.

How to Stimulate Sales.

If selling seeds is the object of a seed catalogue, we may properly seek to analyze the methods of approach to make sales through a catalogue. They are at least three in number, and they often mix as freely as does corn when differing varieties are grown in the same field. Sometimes the mixture shows as unpleasantly, too, as when the persistent Black Mexican invades the purity of the Country Gentleman!

A reputation, gained by years of honest dealing and painstaking effort, is a most effective help in or method for selling seeds. Hard to get, it is hard to retain, meaning constant vigilance and expense, and including many disappointments. Yet it is priceless and price-producing, and it is a poor tradesman who does not seek by every means to maintain his reputation for quality of goods sold, and for quality and justice of service rendered. I have been on the hearing side of the seedsman's confessional for more years than I want to mention, and were not my lips as firmly sealed as any priest's, I could tell some startling tales. For there is another side to reputation in seed-selling—the side of a bad reputation, held by the man who sets price above purity, and who thinks of the present dime from his temporary customer more than the prospective dollar of a solid trade.

Another means of selling I may mention as special presentation. This includes extra description and illustration of the seeds to be sold, and is fraught with danger unless pursued with great moderation. To shout in print about every article offered tends to dull the ears of the buyer, or, to speak more accurately, to tire his eyes. We have all seen the flamboyant offers of a certain international so-called "wizard," who described three new

plums on the same page, accurately, he said, with each as "the best ever!"

Low prices and premiums to buyers are other selling inducements which sometimes work to expand business, if not to produce profits. I question the expediency of both, save in special and limited instances. The best Twentieth Century Seed Catalogues rest on a jealously maintained reputation for quality of stock, confine special presentation to articles of special and assured merit, and put prices upon a fair basis of profit relation.

The Contents of the Catalogue.

The contents of a seed catalogue merit consideration. This term is inclusive of the preliminary information, the specialties or novelties, the main collection of seeds, bulbs, and other viable articles, and the accompanying implements, insecticides, etc., which we printers sometimes allude to as "bug stuff."

The proportion of space to be assigned to these various items of contents is important. There should be a basis upon which to consider their value. It may be found by dividing the total cost of the catalogue when actually in the mails by the number of pages, thus getting a price per page. Tried by this truly acid test, there is likely to be a surprising disparity in comparison with results. The necessary space given to essential information, to cultural directions, is found to be expensive, and it may often be curtailed with benefit. One friend who had used full 16 pages out of 32 for cultural directions in his simple catalogue of strawberry plants found that he was doing the educating, while the other fellow was making the sales; wherefore he cut out the encyclopedia features, reduced his catalogue to 16 pages, and profited by the change.

It is safe rule to suggest measuring the preliminary matter, the testimonials, the showing of warehouses and fields and store fronts, by the dollar value. There is some value in them, surely, but not as much as is sometimes claimed.

Circumspection as to Novelties.

Next in attention, frequently, in the Twentieth Century Seed Catalogue come "Novelties" or "Specialties," done on pink paper, with a flourish of trumpets. To throw down a glove against seed novelties in this assemblage may be as hazardous as to take one's best girl across the bull pasture under a red umbrella, so I will only express my gratification at the seeming decline of the once over-spreading novelty department, and wish that the foreign seedsmen, at least, might be compelled to have their floral wonders tested in America five years before daring to offer them to a suffering trade. The dump-heap would grow larger in consequence, I am sure! These novelties, too, need the dollar page test. Do they pay?

There is a growing and commendable tendency to push vegetables or flowers of real merit, or stocks of selected and proved excellence, instead of uncertain and dubious new items. With proper care of the stocks handled, this plan has been known to stand the dollar page test fully.

The Dollar Test.

The so-called "general collection" of seeds tends all the time to include

more and more varieties, spreading out the catalogue, increasing expense, and getting up against the unjust postage wall, without a corresponding advantage in business. The dollar page test, again, is worth applying here. Some years ago a certain organization was storming the seed business along lines of lavish expenditure. On a forty-dollar-a-page cost, against my protest, a whole page illustration of portulacca was used. Of course it didn't pay, and the firm also soon didn't pay, much to the discomfort of those who had not sought financial shelter when they saw the process of exchanging experience for cash proceeding so openly.

The handling of accessories seems to be growing in the seed trade. Implements, insecticides and tools form no inconsiderable part of the twentieth century seed catalogue. Again the dollar test is wise, and it will result in using smaller engravings and cutting off big handles on a hand cultivator, very frequently.

The best modern seed catalogue will be well balanced, beginning without waste of space, offering only novelties and specialties which can be honestly commended or which are frankly presented for trial, giving due space to a sharply reduced general list, and listing such accessories as are worth the space they take, both by reason of merit and selling quality.

Sizes of Catalogue.

The maker of fine books speaks of the size and shape of a book as its "format." The "format" of a catalogue is a matter of importance, and is connected with considerations not particularly bothering the book-maker. The catalogue man has to deal with illustrations and with postage, the government practically controlling him through its ancient, unjust and arbitrary postage scheme.

Of standard sizes for seed catalogues there are three, and these serve as types only, being widely varied from in practice. The 6x9 size is time-honored, but used more by nurserymen than by seedsmen. Indeed, I know of but one prominent dispenser of seeds who holds to it. Allowing reasonable margins, the 6x9 page, with 54 square inches of paper surface, carries 36 square inches of actual type or printing surface. Thus the proportion of the white paper actually used is 66 per cent. The main difficulty with this smaller size is its relative wastefulness of room in the placing of the average illustrations.

To have a truly economical 6x9 catalogue "make-up," every engraving should be made to fit either the width of the type page (from 4 1-2 to 4 3-4 inches), or half that width, though variations can be made up to a point of width which will allow not less than 1 1-4 inches of clear space for type to the right or the left. Even with much care, inevitable wastes occur in adapting illustrations, headings and lists of prices to this size, wherefore it is easy to see why it has been generally discarded. It is a tribute to Mr. Burpee's notable skill as a catalogue maker that he can produce so excellent a result in this size against all its handicaps.

The size generally mentioned as 7x10, but trimming in commercial practice to 6 7-8 x 10, as cut from stock papers, is the second standard size, and it is largely used by seedsmen. With 69

square inches of paper to the page there are 49 square inches of type surface, allowing good margins. The proportion of type surface to white paper is thus 71 per cent., and this size is thus 5 per cent. more economical than the smaller size upon that basis alone.

But the working of engravings, descriptions and headings on the 7x10 page is not only easier but better from the standpoint of effective display. With a type width of 5 1-2 inches on the normal page, the opportunity for large engravings appears, while the arrangement of the wording can be managed to a much better result. Engravings of varying sizes can be worked into this page without undue waste of space, and as I shall show later by example, the 7x10 size is a very successful one.

The postage consideration, under the present governmental handicap on catalogues, fits the 7x10 size fairly well. By using paper of very light weight—too light for the best results, but not as flimsy and futile as the miserable stuff offered in the trade as "Bible" paper—and by sacrificing margins somewhat, 32 pages, cover, order sheet, return envelope and outside envelope can be mailed for one cent. For two cents there can be mailed 64 pages and all the trimmings, with paper a trifle heavier and margins not so scanty.

An advantage of this 7x10 size not to be overlooked is its lower relative printing cost for both covers and interiors, as compared with larger sizes. Obviously the color preparation of 140 square inches of cover will cost less than 160 square inches, while the economy of printing the inside in 32-page forms instead of 16-page forms is even more apparent.

The third standard size approximates 8x10 inches, and this size is used by many of the leaders in the seed trade. Not only does it give the utmost facility in the arrangement of illustrations, in the division of matter into various column widths and in the arrangement of prices, but it also lends itself to a more striking and symmetrical arrangement. Taking the size which may be trimmed from standard 32x44 paper as a basis, each page of this form contains 79 square inches of paper, of which 63 square inches is occupied by type surface. Thus in this the third standard form, the proportion of type surface to paper area is 78 per cent. This is 7 per cent. beyond the relatively economical 7x10 standard and 12 per cent. beyond the uneconomical 6x9 standard. The actual advantage is much greater, because of the facility for the handling of illustrations given by the larger size. In this approximate 8x10 size the catalogue if not too heavy may be folded lengthwise, when it becomes easy to handle and travels through the mails without damage. It is not practicable to thus fold when the catalogue exceeds 48 pages and cover.

The Question of Postage.

Few seedsmen carrying a general assortment and doing a trade of considerable volume can get along with a catalogue under the three cent postage limit. The 8x10 size permits the mailing of 80 pages, cover, order sheet, return envelope and outside envelope or wrapper within Uncle Sam's six-ounce pinch.

Properly handled, 80 pages gives a fair opportunity for satisfactory de-

scriptions on a complete line, with good illustrations and reasonable space for novelties.

I have several times mentioned with some acerbity the postage limit. I venture to interject at this time my feeling of the injustice under which all the catalogue trade suffers by reason of the discrimination shown against it in the governmental postage arrangements. Take the case, for instance, of a 32-page 7x10 catalogue mailing for one cent, or 8 cents per pound. At the last moment before issue the seedsmen is made aware of a change in prices or of a new thing of meritorious character, which makes it essential for him to insert a small slip in this catalogue, previously calculated to just pass the two-ounce limit. This slip, if inserted, doubles the postage, and thus the defenseless seedsmen is compelled to pay just a trifle less than 16 cents a pound to mail his catalogue. If instead of being a catalogue man he is engaged in the business of printing a newspaper or periodical, he could add with impunity and mail in bulk, without affixing stamps, at one cent a pound. Where the justice in this matter comes in it may be possible for the post office authorities to show, but they have never yet done it. A united, insistent demand, expressed not only by resolutions of such a body as this, but by continual, direct and personal protest to the Congressmen reachable through each member of such an association as this, for justice and equity in governmental transactions with the important interests using catalogues, would break down, I believe, eventually, the crass and sometimes insolent inertia and stupidity of the congressional postal conditions. There should be a vigorous and insistent agitation for a pound rate for catalogues, even if the rate is not lowered. The government has no right to maintain an antiquated system which imposes a penalty upon business enterprise. I believe personally that the rate should be lower, but even if it was fixed at 8 cents per pound and the tradesman was permitted to mail in bulk in the same manner that the "yellowest" newspaper or the filthiest magazine mails every day, a great step in advance would be scored. I sincerely hope that the seedsmen will not rest easy under the prevailing injustice, which causes them to take it out of the printer and the paper maker when they should be pounding at the heads of their obdurate and inattentive congressmen.

About Catalogue Illustrations.

In considering the case of a Twentieth Century Seed Catalogue, we must take into account all the forms of illustration, a subject in itself sufficient for several such presentations

RUSTIC WORK



Settees -	\$7.00
Window Boxes	1.25
Arm Chairs	3.25
Tubs	1.25
Vases with Stands	2.75

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201 Fulton St., N. Y.

as I am endeavoring to make. The catalogues we all remember as prevailing ten to twenty years ago were illustrated primarily by wood cuts, engraved principally by one imaginative illustrator in America or obtained from the more accurate foreign sources. The day of these has passed, and the more attractive halftone, photographically produced, either from a drawing or from a photograph, now prevails. The people who get the catalogues have been wonderfully cultivated in estimation of beauty by the vast flood of magazines poured upon the country each month, and they can no longer be said to be indifferent to exaggerated, inappropriate, ugly or misleading illustrations. The present tendency is wholesome and honest, and the most successful seedmen use the fairest and most beautiful illustrations.

Passing hurriedly over this problem of illustrations, I may only urge a reasonable consistency. It is a matter of common remark that a good halftone on a page "kills" the old-fashioned wood cut which jostles it. No one knows better than myself after many years of endeavor, the difficulty of getting photographic illustrations of all the articles listed in a great seed catalogue. If the seedsmen were wise enough to maintain their own capable trained photographers, operating in their own trial grounds and inspecting their own crops, this difficulty would be diminished. I firmly believe that the truly representative twentieth century catalogue will come to be illustrated from photographs prepared either by or under the direct control of the seedsmen from sources he has within reach.

The wood cut having dropped out of sight, the line engraving, a somewhat cheaper form resulting only from hand-made drawings, is yet used, but in a diminishing ratio. If the drawings are well made, consistent line engravings are satisfactory and commendable.

The Problem of the White Space.

I must not neglect to call attention to the importance of the arrangement

ZIRNCIEBEL'S GIANT PANSIES

Fresh Crop

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Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNCIEBEL. None genuine unless sold by me.

AUGUSTUS ZIRNCIEBEL, Needham, Mass.

GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.

GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

of the white space on a catalogue page, if the page is to appeal agreeably to the customer and draw his admiration and attention. Too often this is utterly neglected, the fault being mainly with the printer, who is not sufficiently educated in the higher portion of his arduous pursuit to realize that his most difficult problem is the handling of the white space on any piece of printed matter.

By the white space I mean not only the space between words, but between lines, about headings, around engravings, as well as the margins of the catalogue pages themselves. There should be an agreeable harmony in the white space. This is obtainable not only through the interest and skill of the printer, but through the co-operation of the catalogue maker, who adapts his engravings to their uses and who insists on harmonious relation of type, headings, black letter for emphasis and margins. Frequently the catalogue man himself does not realize why a certain page looks agreeable, and I am quite sure that the customer does not understand why one page is attractive and another is not. More than 99 percent of the time the difference, given certain reasonable efficiency in the matter of illustration and type display, is in the handling of the white space.

(To be continued)

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"BODDINGTON'S CHALLENGE" mixture contains all the finest *Giant* strains—of the leading Pansy Specialists in the world—the *Giant* self colors, the *Giant* striped and margined, and the *Giant* blotched—all carefully mixed in proportion—the *finest* that money can buy—the *finest* your money can buy. A florist who has grown it, said "Why don't you call it *Defiance!*"

Trade pkt. 75c, 1-4 oz. \$1.50, 1-2 oz. \$2.75, oz. \$5.00. New crop ready July.

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Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

DAISY DOUBLE

	Tr	pkt.	Oz.
Giant White	40c	\$3.00	
" Mixed	40	2.50	
" Longfellow	30	2.50	
" Snowball	30	2.50	
" Mixed	30	2.00	

MYOSOTIS

Alpestris Victoria very large blue	25	.75
Eliza Fanrobert best for pots	20	.60
Oblongata Perfecta long stemmed	25	1.25
Palustris	30	1.50
Palustris Semper florens	25	1.25

PANSY

MICHELL'S GIANT EXHIBITION

This is the finest strain of pansies in existence
50c. per trade pkt.; 1-8 oz., \$1.00;
\$5.00 per oz.

NEW STOCK OF
PRIMULA and CINERARIA
SEED NOW READY

CYCAS REVOLUTA

Strong, healthy trunks,
25 lbs. \$2.25 100 lbs. \$8.50
Send for our wholesale price list of
Bulbs for Florists

HENRY F. MICHELL CO.
1018 Market Street
PHILADELPHIA - - PA.

PRIZE Primula Seed

(CHINESE PRIMROSE)

English Prize Fringed Mixed—Absolutely the best strain of Chinese Primrose the world produces
Per 100 seeds, 25c, 500 seeds, \$1.00; 1000 seeds, \$1.75.

	Trade pkt
Primula Obconica Grandiflora, prize mixture	\$.30
Primula Stellata (Star Primula) .....	.50
Primula Forbesi (Baby Primrose) .....	.40
Cineraria, English prize mixture. This strain is the finest procurable. ½ trade pkt., 60c.	1.00
Calceolaria, English prize mixture. This strain is absolutely unsurpassed. ½ trade pkt., 60c.	1.00
Cyclamen, Giant Flowering, mixed, 50 seeds, 40c; 100 seeds, 75c; 1000 seeds, \$6.00.	

PANSY

Johnson's Kingly Prize-Winner Strain

The finest strain of Giant Pansies in the market.
1000 seeds, 30c; 2000 seeds, 50c; 5000 seeds, \$1.00; per ounce, \$5.00.

Write for our complete Pansy list.

JOHNSON SEED CO., 217 Market St. PHILADELPHIA

Vick's Superb Pansy Seed

All the best varieties in separate colors
VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:
1-8 oz. 85c. 1-4 oz. \$1.60 Ounce \$6.00

JAMES VICK'S SONS, Rochester, N. Y.

**High Grade Seeds for
Market Gardener,
Florist and Farmer**

Catalogues Free

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,
The Greenhouse,
For the Herbaceous Garden,
For the Flower Garden,
For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

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**Thorburn's
Seeds**

ASPARAGUS PLUMOSUS NANUS SEED.

Cold Storage LILY OF THE VALLEY
PIPS, best possible grade, in cases of 1000
and 3000 pips each, at \$12.00 per 1000.

Advance Orders now being booked for
BERMUDA EASTER LILIES and ROMAN
HYACINTHS.

SEND FOR PRICES

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK
Everything of the Highest Grade

**Grey's Highest Grade
of Tested Seeds**

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THOMAS J. GREY CO.
32 & 33 So. Market St., BOSTON

**BRIDGEMAN'S SEED WAREHOUSE
RICKARDS BROS.**
Props.

37 East 19th St., NEW YORK CITY

**Cauliflower's
Cabbage**

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

PERSONAL.

John Risch, of Weiland & Risch, Chicago, starts on June 6 for Paris.

Bernard J. Connolly of Taunton, Mass., sailed for Ireland on June 15, to visit his parents.

S. Groot of Sluis & Groot of Enkhuizen, Holland, who has just finished a business trip to the United States, sailed on the New Amsterdam on July 3 for Rotterdam.

Cyrus Locke, gardener for Henry Cabot Lodge, Nahant, Mass., has entered upon his 49th consecutive year of service in that capacity for his present employer's family.

A. Leuthy of Reslindale, Mass., sails on July 11 to Havre on the La Provence. He expects to be absent only about five weeks. We understand that Thomas Roland of Nahant will sail with him.

Baron Louis Ambrozy de Seden, attache of the Austro-Hungarian Embassy, visited the Arnold Arboretum to note the trees and shrubs best adapted to his country. He was on his way to his summer home at Bar Harbor, Me.

Park Superintendent Pettigrew of Boston and foreman Sander of the Arnold Arboretum are both sick in the hospital. Mr. Pettigrew is recovering nicely from an operation but it will be several weeks before he can leave the hospital.

MOVEMENTS OF GARDENERS.

John Harris has been engaged as head gardener to Mr. D. F. Bush, Glen Cove, N. Y.

Martin Hylands has taken a position as gardener with Mr. Brooks Adams of Quincy, Mass.

Robert Purshall, lately gardener for Mrs. O. H. P. Belmont, has been appointed gardener on the Phelps estate at Hempstead, Long Island.

CLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing Groff's Hybrids, Named Novelties of rare beauty; Mixtures and Collections to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE
Gladiolus Specialist
MEADOWVALE FARM, BERLIN, N. Y.

CYCLAMEN

Splendens Gigantum Hybrids

In five colors; the finest strain known. 3-in. pots, ready, \$7.00 per 100; 4-in., \$15.00 per 100; 5-in., \$20.00 per 100. Satisfaction guaranteed.

S. S. SKIDELSKY, 824 North 24th St., Philadelphia, Pa.

3000 SMILAX PLANTS

\$30 per Thousand. Apply to

WELCH BROS.

226 Devonshire Street, Boston, Mass.

PEONIES
1200 Sorts—150,000 Plants

THE BEST AND LARGEST COLLECTION ANYWHERE
THE LARGEST STOCK IN AMERICA

Our fields were a sight this season; they could be no finer. Everyone viewing our fields was surprised at their excellence, magnificence, genuineness, care exercised to have them unmix, genuine, etc.

OUR LEADERS

Boadicea, C. Archard, Couronne d'Or, Duchesse de Nemours, Festiva Maxima, Mad. de Verneville, Marie Lemoine, M. du Pont, Whitley, Octavie Demay, Dorchester, Eugene Verdier, Grandiflora, Floral Treasure, Jenny Lind, Lady Bramwell, Mad. Ducl, Modeste Guerin, Ne Plus Ultra, Perfection, Rosea Superba, Western Beauty, Bacillus, Delacher, Crouse, Eclatante, C. Mather, Purplea Superba, Victor Hugo, Warwick, Officinalis, Alba Plena, Alba Mutabilis, Rosea, Rosea Superba, Rubra Tenuifolia.

The Best of all the Novelties and Varieties

Lutea (Delavegi, golden yellow), Corsica, etc., etc. Aug. Villame, Avalanche, Baroness Schroeder, Coronation, F. B. Hayes, Goliath, Gismonda, Mikado, M. N. Cohusae, Petit Renée, Pierre Duchortrei, Sapho and many other Extra—Extra.

Owing to our desire to see all our sorts bloom out, our list will not be ready for a few days. In case you are in a hurry or desire any special sort kindly write us. We have 25 to 5,000 each of nearly our entire list of sorts.

The Finest Gladioli, Dahlias, Cannas, Iris, Peonies.

There is only one best. We aim to have it

C. BETSCHER
CANAL DOVER - OHIO, U. S. A.

CHRYSANTHEMUMS
FOR SALE.

3500 Polly Rose, 500 Halliday, 400 Duckham, 300 each, Vallis, Mrs. W. B. Chamberlain, 200 each, Ben Wells, Mrs. Coombs, Col. Appleton, Gen. Hutton, Salter, 100 each, Maud Dean, Cahusac, Cheltonii, Nellie Pockett, Yanoma, Mrs. Jerome Jones, in 2½ in. pots, \$3.00 per 100, \$25.00 per 1000.

Cash with order, please.

A reasonable offer for THE ENTIRE LOT will be accepted.

CASTLE GROVE GREENHOUSES,
DANVILLE, PA.

HAVE YOU A SURPLUS
of any kind of stock? Make it a surplus
OF CASH
by advertising it in HORTICULTURE.

GOVERNOR HERRICK
VIOLET

The best single Violet on the market today. A strong grower, excellent bloomer, and fine dark color. Strong healthy plants ready for immediate planting. From 3 inch pots. Price \$4 per 100, \$35 per 1000

H. A. MOLATSCH & SON
P. O. Box 44. Nanuet, N. Y.

DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; prompt delivery.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
ATCO, N. J.

Two Splendid Novelties in
Winter Flowering Begonias

Begonia "Agatha" (Veitch), quite an improvement on Gloire de Lorraine; stronger, larger flowers, better color: now ready, \$25.00 per 100.

Begonia "Triomphe de l'Est" (Lemoine), strong, robust grower, covered with profusion of carmine-red flowers, from January till August. Now ready, \$25.00 per 100.

J. A. PETERSON

McHenry Avenue, Westwood,
CINCINNATI, O.

Give Us a Trial on Azaleas.

250,000 fine shaped plants grown exclusively for us by Eugene Verveat De Vos, Wynearde near Ghent, Belgium, in his own gardens. Special prices upon request.

JOHN SCHEEPERS & CO.,
4 & 6 Old Slip, NEW YORK.

JUST TO HAND

C. Trianae, Den. Phalaenopsis, D. Wardianum, Vanda Coerulea, V. Kimballiana, V. Amesiana, L. Anceps, L. Albida, Epidendrum Vittelinum, Cattleya citrina, Odonto. Rossii Majus
GARRILLO & BALDWIN, SECAUCUS N. J.

ORCHIDS—1907

Just to Hand Splendid Importations of
CATTLEYA CIGAS
LABIATA
SHROEDERAE

Inquire for prices—we have them low for A-1 goods

ROEHR'S EXOTIC NURSERIES,
RUTHERFORD, N. J.

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Largest Importers, Exporters, Growers
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and 235 Broadway, Room 1
NEW YORK CITY

Just Arrived in Fine Condition
ORCHIDS
In Variety

Cattleyas, Laelias, Oncidiums, Odontoglossum, Epidendrum, etc.

WRITE FOR PRICES.

JOSEPH A. MANDA, Orchid Expert, West Orange, N. J.

ARRIVED IN FINE CONDITION
Cattleya Percivaliana, Gigas, Sanderæ, Speciosissima; Oncidium Kramerianum, and others.

Write for Prices, or Telephone 143, Madison, N. J.

ORDONEZ, DE NAVE & CO.
P. O. Box 105 MADISON, N. J.

Just arrived in superb condition:

Cattleya Percivaliana, Cattleya labiata, Cattleya Schroederæ, Oncidium varicosum Rogersii, O. Crispum, O. Marshallianum, O. luridum, Miltonia Cuneata, M. Candida, M. Clowesii, Laelia Crispata, L. Dayana, L. Praestans, etc. Write for prices.

LAGER & HURRELL, Summit, N. J.

JAPANESE
THE YOKOHAMA NURSERY CO. NEW YORK.
31 BARCLAY STR.
LILIES
PLANTS
BAMBOO STAKES

PREPARE FOR CHRISTMAS

Novelties always sell during the holidays. If you have not already grown them, try some Pink or Rose SPECIOSUMS. If potted in July will flower for Thanksgiving and Christmas. Always useful either for cut flowers or plants. Ask the leading florists in Pittsburgh, Cleveland, Detroit, Buffalo, or around New York City. Order today. Will ship any time. Cold storage Lilium longiflorum and giganteum take about two months to bloom from time of potting; speciosums from five to six months, so that longiflorum wanted for Thanksgiving and Christmas should be planted about Oct. 1, and speciosums in July.

ALL CASES ARE REPACKED BEFORE SHIPMENT

Lilium Longiflorum Giganteum	Per 100	Per 1000	Lilium Longiflorum Multiflorum	Per 100	Per 1000
7 to 9 inch bulbs, 300 in case	\$ 9.00	\$ 80.00	9 to 10 inch bulbs, 200 in case	\$11.00	\$100.00
Lilium Speciosum Rubrum			Lilium Speciosum Melpomene		
8 to 9 inch bulbs, 200 in case	8.00	75.00	8 to 9 inch bulbs, 200 in case	9.00	80.00
9 to 11 inch bulbs, 150 in case	12.50	110.00	9 to 11 inch bulbs, 150 in case	12.00	115.00

Full Cases Sold at 1000 Rate

ARTHUR T. BODDINGTON, 342 West 14th St., New York City

200,000 Calla Lily Bulbs--Æthiopica



Calla Æthiopica, 10 inches circumference	100	1000
" " 9 "	\$10.00	\$90.00
" " 8 "	9.00	80.00
" " 7 "	8.00	70.00
" " 6 "	7.00	60.00
" " 5 "	5.50	45.00
" " 4 "	4.50	35.00
" " 3 "	3.50	25.00
	2.25	15.00

The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My first car leaves for the East promptly on July 15. If cash is sent with the order I will prepay the freight, which is 15 per cent value of the bulbs.

A. MITTING, 17-23 Kennan Street, SANTA CRUZ, CAL.

WHOLESALE TRADE LIST

Plants from 2½ in. pots, 50c. per doz. \$3.00 per 100

Ageratum Inimitabile, Blue Perfection, Heliotropes, Lobelia, Parlor Ivy. Shasta Daisies, 3 varieties. Night-Blooming Jasmine. Stevias dwarf and tall, Asparagus Sprengeri. Asparagus plumosus, strong plants, 5-inch pots, \$2.00 per doz. Passiflora, Mammoth Beauty, a hardy variety from 3-inch pot plants, 75c. per doz. Clematis paniculata, 3-inch pots, \$5.00 per 100. Clematis, large-flowering varieties, home grown, two year old plants, \$3.00 per doz. Swainsona alba, 3-inch pots, \$5.00 per 100. Achyrantes Lindenii, Alternantheras, yellow, 2½-inch pots, \$2.00 per 100. Crotons, 4 in. pots, \$2.00 per doz. Asparagus Sprengeri, seedlings from flats at \$1.00 per 100. Chrysanthemums, best leading varieties, White, Yellow and Pink Plants from 2½-inch pots, \$2.00 per 100. Geraniums in full bloom, scarlet, pink and white, 4-inch pots, \$5.00 per 100.

C. EISELE, - - 11th and Roy Streets, PHILADELPHIA, PA.

20,000 SALVIAS

Fine Stock,

BONFIRE, ST. LOUIS and SPLENDENS

2½ inch pots, \$3.00 per 100.

3 inch pots, \$4.00 per 100.

GARDENIA VEITCHII

20,000 plants in 2½ and 3 inch pots. Fine clean stock.

JOHN SCOTT

Rutland Road and East 45th St.

Telephone 2890 Bedford. **BROOKLYN, N. Y.**

DRACAENA INDIVISA

25c. to \$1.00 each.

Variegated Funkias, out of 3 in. pots, \$5.00 per 100.

Calla Lilies, in bud or bloom, in 5 and 6 in. pots, 35c each; \$40.00 per 100

Large Marshal Niel Roses, \$1.00 each.

K. E. JUUL, Elizabeth, N. J.

GERANIUMS

Standard varieties and Novelties, for \$2.00 per 100 up to 75 cts. each. We will send 1000 in twenty varieties, our selection, single and double, for \$18.00 cash with order. Send for our Geranium catalogue, it contains descriptions of over 175 varieties. Visitors always welcome.

R. VINCENT, JR. & SONS CO.,
WHITE MARSH, MD.

2000 GERANIUMS

NUTT, LA FAVORITE, GEN.

GRANT, PRIDE OF WEST,

3 1-2 Inch Pots, - \$5 00 per 100,
\$40 00 per 1000.

WM. PATTERSON,

92 South Central Ave.,

WOLLASTON, . . MASS.

BEDDING PLANTS

Of Every Description

Also a fine lot of Palms in all sizes, such as Kentias, Arecas, Latanias, Phoenix and Cocos. Pandanus Veitchii and utilis, Crotons, Dracaenas, Nepenthes, Araucarias, Araucarias, Aspidistras, Ferns suitable for dishes, in leading varieties. Cibotium Schiedel from \$1.00 to \$3.00 each.

Will book contracts for Azaleas for future delivery. Wholesale Price List on application.

A. LEUTHY & CO.,

Importers and Exporters, Growers and Dealers,

Perkins St. Nurseries, Roslindale,

BOSTON, MASS.

GODFREY ASCHMANN

Importer and Wholesale Grower and Shipper

of Araucaria Excelsa, Compacta, Robusta and Glauca; Kentia Forsteriana and Belmoreana Azalea, Indica, etc. Cultivator of Boston, Scottii, Barrowsii, Elegantissima and Whitmai Ferns. Ferns for dishes, Cocos, etc. Write for prices.

1012 Ontario St., Philadelphia

SOME GIVE YOU QUANTITY
SOME GIVE YOU QUALITY
I GIVE YOU BOTH

Boston and Scotti Ferns

6-inch pots, \$40.00 per 100

LARGE BOSTONS, AT \$1.00 AND \$1.50 EACH

WHITMANII, 6-INCH POTS, \$60.00 PER 100

FIGUS, RUBBER PLANTS, 6-INCH POTS, 20 TO 28 INCH TALL \$40.00 PER 100

CASH WITH ORDER OR SATISFACTORY REFERENCES

WM. G. SMITH, PLANT SPECIALIST

61st and MARKET ST., Philadelphia

Prices Quoted in these Columns are for Dealers Only. When Writing to Advertisers Please Mention HORTICULTURE.

THE CONGRESSIONAL FREE SEED DISTRIBUTION.

(Paper read before the American Seed Trade Association by Alexander Forbes.)

(Continued from page 13.)

The Truckers and Market Gardeners are also opposed to the Congressional Free Seed Distribution, as will be shown by the following:

"The South Texas Fruit and Truck Growers' Association, consisting of affiliated local associations throughout South Texas and the Gulf coast country, the total membership of which is over 1,300, passed unanimously the following resolutions during their regular meeting at Edna, November 13 and 14, 1906:

Whereas, The free garden seed received from members of Congress at the expense of the General Government are usually of varieties known to be unsuited to the soil and climate of South Texas, and hence are worthless to us; and

Whereas, These seeds are sent to us by our Representatives in Congress under the mistaken idea that a favor is being conferred, which mistaken idea we hereby wish to correct; and

Whereas, The expense to the General Government of obtaining seed and distributing them is a considerable item, and a serious economic waste wholly unjustified by the results obtained; and

Whereas, The amount of money spent annually for seed distribution if apportioned among the United States experiment stations, would be a thousand times more beneficial to each of us than as now spent, for it would enable more investigators to work on horticultural problems the solution of which would be of lasting value to every vegetable grower and to the whole state; therefore be it

Resolved, That we, the South Texas Fruit and Truck Growers' Association, thank our Representatives in Congress for their past favors in the way of free seeds, but assure them that these favors were mistaken kindness on their part; that we condemn the practice of free distribution of garden seeds as an economic waste wholly unjustifiable; that in the future we will not accept from the Government free garden seeds; that we urge our Representatives, as a favor which we will heartily appreciate, to vote against the bill appropriating funds for the distributing of free garden seeds, and to use their influence to have the amount thus saved appropriated to the experiment stations of the country, whose valuable work is indorsed by all right-thinking men.

Resolved Further, That a copy of these resolutions be sent each Congressional Representative from South Texas and to the press of the State with a request for its publication.

W. H. TRAVIS,

Palacios, President.

S. A. McHENRY,

Santa Maria, Vice President.

C. A. WALTON,

Victoria, Secretary-Treasurer.

The Agricultural Experiment Stations in every State are decidedly opposed to the distribution and the Department of Agriculture itself is now arrayed against it. Even as far back as 1903, Secretary Wilson wrote with regard to the securing and distributing of miscellaneous garden seeds:

"With regard to the securing and distributing of miscellaneous garden and flower seed, the fact remains that this work does not accomplish the ends for which the law was originally framed. There are collected, put up, and distributed now, on Congressional orders nearly 40,000,000 packets of miscellaneous vegetable and flower seeds each year. These seeds are the best that can be obtained in the market, but from the fact that large numbers of packets are wasted, the seeds obtained can be of standard sorts only, such as are to be found everywhere for sale in the open market. As there is no practical object to be accomplished by distributing this kind of seed, it is very desirable that some change be made. To this end, it would seem wise to limit our work entirely to the securing and distributing of seeds, plants, etc., of new and rare sorts."

And later, by the Secretary's letter to the Hon. J. A. Tawney, dated

March 15, 1906, from which the following is an extract:

"In my former letter I commented on the value of this miscellaneous distribution of garden and flower seeds, calling attention to the fact that it was difficult to state what such value might be. I also emphasized the fact that in my judgment the money thus expended could be put to better use."

If further proof were needed that the Department of Agriculture was in favor of a change in the distribution, it can be found in Dr. Galloway's testimony before the House Committee on Agriculture, dated December 17, 1906. This testimony was prefaced by the remark that Dr. Galloway would present the Department's view and represent the Secretary in this matter. His view, therefore, may be considered the views of the Department.

"If Congress, in its judgment, believes the time has come to make a change, the Department stands ready to indicate in what manner this change can be made and in what way the funds now appropriated might be used for the upbuilding of plant industries. I am here to present this plan and to invite your suggestions and criticisms upon any points regarding it. The plan that we want to suggest has for its object

First, The abandonment of the miscellaneous distribution of ordinary seeds.

Second, The securing, through all the sources at the command of the Department, of valuable new seeds, plants, bulbs, etc., which are being developed at home and which are known only locally, and the distribution and testing of these new things in regions where it is believed they may have value.

Third, The securing from abroad of new seeds, plants, etc., for introduction into this country, and the upbuilding of agricultural industries as a result of this work."

He then went on to enumerate the number of projects which the Department had worked out, some of which were described to the Committee, seventy-five in all, including such subjects as the extension of Arabian alfalfa in the southwest, extension of alfalfa-growing into states where not now a staple crop, distribution of new varieties of cotton, the improvement of cowpeas, introduction and testing of alkali-resistant crops, sugar-beet seed growing, bulb growing in the United States, etc., etc.

It will therefore be seen that the seedsmen are not the only body who oppose the Congressional Free Seed Distribution. As has been shown, we have also the Farmers, the Market Gardeners and Truckers, the Agricultural Experiment Stations, the Agricultural Press, and last, but not least, the Department of Agriculture. All these are opposed to the present manner of distribution. Who, then, is in favor of it? Congress, and Congress alone! Why does Congress want this distribution of seeds conducted on these lines? The reasons, in my opinion, are purely political. It enables the Congressmen to come in touch annually with their rural or suburban constituents. It enables Congress to shake hands, so to speak, with their farmer friends, and there is no doubt some of their constituents feel "tickled" that their Congressmen remember them in this way once a year, and small as it may appear, this same free seed distribution is considered by the average Congressman, especially from the rural districts, a valuable political asset. He is therefore anxious to remember as many of his constituents as he can, by sending them this petty package of common

garden seeds. If the distribution was confined to new, rare and valuable varieties, that were worth something, each Congressman would probably have to be content with sending 1,000 packages annually, whereas, by the present plan, he can send out, under his own frank, 12,500 packages of five packets each, or 62,500 packets in all, and so hungry are some Congressmen for these seeds that they exchange their documents with fellow members from the Cities, for their seed quotas. Hon. Chas. R. Davis of Minnesota acknowledged to the Agricultural Committee of the House that he bought 15,000 to 25,000 packages over and above his quota, that he bought them for cash at reduced figures, some from the Department and some from agents around the corridors, who claim that they have gotten them from certain members who did not need them and who have them for sale. (Proof of this can be found on Page 5 of the pamphlet on the distribution of seeds, at the hearing before the Agricultural Committee of the House, Dec. 12, 1906.) The following table, prepared by the Department on Agriculture, will also show how systematically this thing is done:

Congressional Distribution of Vegetables and Flower Seeds 1905-6.

(1) Number of Congressmen who distributed more than 20,000 packages of seed	59
(2) Number who distributed more than their regular quotas (12,500 packages) but less than 20,000 packages	157
(3) Number who distributed not exceeding, approximately, their regular quotas, but more than 5,000 packages	246
(4) Number who distributed less than 5,000 packages but more than 1,000 packages	13
(5) Number who distributed less than 1,000 packages	3
Total	478

There is at the Capitol a regular clearing house, so to speak, for handling members' quotas. Can it be wondered at, that it is a hard matter to root out or change this Congressional Free Seed Distribution, it is so dear to the heart of some Congressmen that it seems to them a part and parcel of their very existence to keep this distribution intact as it is now? It is my belief that if this distribution was confined to new and rare varieties, as it should be and as the original Act provides, the majority of Congressmen would have no interest in it. There is no use in denying the fact that what Congress wants is not what is new, rare and valuable in connection with the free seed distribution, but the greatest quantity of the most ordinary kinds, that can be bought for the least amount of money.

PUBLICATIONS RECEIVED.

The National Chrysanthemum Society of England has just issued its schedule of prizes for the year 1907. There will be three regular exhibitions at the Crystal Palace, the first on October 2 and 3, the second on November 6, 7 and 8 and the third on December 4 and 5. There will be a market show at Covent Garden on December 11. Full schedules of prizes are given in this publication, also lists of members, rules and regulations and a lot of other pertinent information.

During Recess.

NEW YORK FLORISTS' CLUB.

The annual meeting of the New York Florists' Club on Tuesday, July 2, at Witzel's Point Grove, was a magnificent success, financially, socially and otherwise. Over three hundred and fifty members, wives and children participated, and the various features under the direction of Messrs. Sheridan, Young, Traendly and Weathered were put through without a hitch or mishap. The weather was perfect, and the trip by boat was most enjoyable; good music, abundant refreshments and everything else to make everybody happy, including a host of babies, were provided with generous liberality. The games were, as usual, entered into with great zest. There were fifty lady bowlers, Mrs. John Donaldson winning the first prize. Louis Schmutz with a family party of thirteen led the list of big delegations. Further details next week.

MONTREAL PERSONAL AND TRADE NOTES.

Hall & Robinson announce that they are going to grow carnations more extensively and will put up a new house 25x50.

J. Bennett, wholesale grower, will only repair expensively some old houses. If the time permits him, he has in prospect a trip to England.

Geo. Robinson is inquiring who of the trade here will attend the convention in London next August; it is hoped to see Montreal well represented.

Mrs. J. McKenna & Son are putting up a new propagating house. They will very soon open a new store at Bennett's Theatre on St. Catherine street.

The picnic of the Montreal Gardeners' and Florists' Club announced for the 17th of July, is postponed, very likely until the 24th. It will take place at Highgate Springs.

Business must be prospering in Montreal, if we judge by the many firms intending to build. C. Gratton, formerly foreman of C. Campbell, bought materials of the old establishment at Rockfield and will rebuild at St. Laurent, where he intends to grow mostly cut flowers. C. A. Smith, gardener to Mr. Daweb of Lachine, will build a new house 25x100 upon his property and grow general stock.

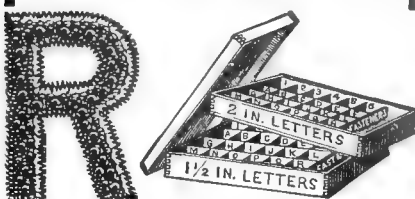
The body of John Donnelly, a gardener, was found in New York harbor on Wednesday morning, June 26.

KORAL SCRIPT LETTERS AND EMBLEMS
ONCE USED ALWAYS USED
For sale by all first class supply houses. Made by
KORAL MFG. CO.
26 Hawley St., Boston

JACOB SCHULZ, 644 Fourth Ave.,
Cut Flowers of BEST QUALITY in season
delivered promptly to any address.
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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	June 24		June 24		July 1		July 3	
ROSES								
Am. Beauty, Fan. & Sp.	25.00	to 35.00	20.00	to 25.00	20.00	to 25.00	15.00	to 25.00
" Extra.....	15.00	to 20.00	18.00	to 20.00	15.00	to 20.00	10.00	to 12.00
" No. 1.....	10.00	to 12.00	12.00	to 15.00	12.00	to 15.00	6.00	to 8.00
" Lower grades.....	4.00	to 6.00	10.00	to 12.00	6.00	to 10.00	.50	to 3.00
Bride, 'Maid, Golden Gate, F. & S..	5.00	to 6.00	8.00	to 10.00	10.00	to 12.00	4.00	to 6.00
" " " Extra..	4.00	to 5.00	6.00	to 8.00	8.00	to 10.00	3.00	to 4.00
" " " No. 1 & lw. gr.	2.00	to 3.00	2.00	to 4.00	3.00	to 5.00	.50	to 1.00
Liberty, Richmond, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	10.00	to 12.00	6.00	to 8.00
" " " Lower grades.	3.00	to 5.00	6.00	to 8.00	3.00	to 6.00	.50	to 4.00
Chatenay, Morgan, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	6.00	to 8.00	3.00	to 5.00
" " " Lower grades.	3.00	to 4.00	6.00	to 8.00	4.00	to 5.00	.50	to 3.00
Kaiserin, Carnot, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00	6.00	to 10.00
" " " Lower grades...	3.00	to 5.00	6.00	to 8.00	3.00	to 6.00	1.00	to 2.00
Killarney, Wellesley, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00	6.00	to 8.00
" " " Lower grades	3.00	to 4.00	6.00	to 8.00	4.00	to 6.00	1.00	to 3.00
CARNATIONS								
Fancy and Novelties.....	1.50	to 2.00	1.50	to 2.00	2.00	to 3.00	1.00	to 1.50
Ordinary.....	.75	to 1.00	.75	to 1.00	1.00	to 2.00	.50	to 1.00
MISCELLANEOUS								
Sweet Peas.....	.50	to 1.00	.75	to 1.00	.25	to .50	.25	to .75
Cattleyas.....	40.00	to 50.00	50.00	to 60.00	.....	to 60.00	35.00	to 60.00
Lilies.....	10.00	to 12.00	12.00	to 15.00	12.50	to 15.00	6.00	to 10.00
Lily of the Valley.....	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00	2.00	to 4.00
Gardenias.....	.50	to 1.50	.50	to .75	1.00	to 12.50	2.00	to 4.00
Mignonette.....	4.00	to 8.00	3.00	to 5.00	1.00	to 2.00	1.00	to 2.00
Adiantum.....	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax.....	15.00	to 18.00	12.00	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	to 30.00	50.00	to 75.00	to 50.00
" " " & Spren. (100 bchs.)	35.00	to 50.00	to 30.00	to 50.00	35.00	to 50.00

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FLOWER MARKET REPORTS

BOSTON Business has suddenly fallen down to the lowest ebb of summer dullness, and for the next few weeks there will be little to report otherwise. Receipts continue heavy on all lines and the question of price has no weight, the customer buying in thousand lots having his own way and making the price just about as he pleases. Carnations are on the downward course as to quality. Bride and Bridesmaid roses are also tending the same way with plenty of mildew in evidence. Kaiserin, Carnot, Liberty and Richmond are the leaders in quality at present. Sweet peas are badly congested, and so are peonies. The season has been a bad one for the grower of peonies, Jacqueminot roses and other June specialties, as these things did not bloom until after the regular demand for them had ceased.

The first part of the **BUFFALO** week beginning June 24 and up to Friday last was a busy one for the trade. Commencements, weddings, etc., were in full swing and there was plenty of stock. In fact on Friday and Saturday an over-supply was again had. Carnations were well in demand, but the quality was poor. Roses were also in heavy supply. Peonies played an important part, but with no demand and prices ruling low. The opening market Monday, July 1st, was slow, stock pouring in to overflowing and everything simply at a standstill.

The warm weather is **COLUMBUS** with us and as a result business has begun to drop off and from now on dullness more or less marked will be the rule. But everyone is satisfied, for with all it has been a splendid money-making year. As the time for the annual club picnic draws near, every indication points to a great outing July 17th at Buckeye Lake.

DETROIT There really was something doing last week. The wholesalers claim that they have carnations to burn, but the blamed stuff does not burn, therefore they must pay out of their hard-earned commission to have the dead carted away from the battlefield! All the schools have closed and all the June brides have entered into their bliss or doom—whichever it might be—and the florist goes fishing! Peonies are forging themselves ahead quite a bit and they are the most prominent flowers in local florists' windows.

INDIANAPOLIS The flower business is undergoing its usual transition into summer dullness and demands in every line are exceedingly light. The market is over loaded with stock of all kinds and prices have a downward tendency. The peony season just ended has not been a profitable one. Roses and carnations are plentiful and depreciating in quality and price. Stocks, sweet peas, snap dragon, lily of the valley, and gladioli are in good supply with little or no demand. All the prominent greenhouse men report the largest plant and bedding trade in years, considerable work of that kind being done as late as July 1. The hot weather is now here and early closing is the rule. Palm and foliage beds and bay trees are more in evidence this season than ever before.

NEW YORK Profound stillness prevails in all departments of the florist trade, wholesale or retail. The condition at present existing is an annual occurrence, but comes in with unusual suddenness this year. Local demand has reached its lowest level and outside calls have not yet materialized. The question of vacations and early closing is uppermost on all sides, and the picnic or "outing" of the Florists' Club on July 2 has monopolized most of the interest in the haunts of the progressive wholesaler with his satellites

and retainers. The prize winners are still telling how they did it.

There is a slight **PHILADELPHIA** improvement in market conditions here this week, caused chiefly by the shortening up of supplies, but the volume of business is very limited. The best sellers in roses are Beauty, Liberty and Kaiserin. Carnations and sweet peas are much too plentiful and prices rule low. Cattleyas and Easter lilies are in limited supply, but enough for the call. Lily of the valley is quite draggy. Gardenias are in lessened supply, with demand weak, but prices have stiffened a little; smilax scarce; peony flood has abated. Altogether, the tone is much improved. At last report there was no market at all; this week it is about normal.

AND STILL THEY COME.

June 26, 1907.
HORTICULTURE Publishing Co.

Mr. Wm. J. Stewart, Editor:

Dear Sir: Allow me to congratulate you upon the accuracy of your market reports. "Comparisons, of course, are odious" but I must say that the reports in HORTICULTURE in my opinion (at least as far as this market is concerned and that is the only one in which I am conversant with the conditions) more nearly hit the nail on the head and size up the market better than any of your contemporaries. At least that is the belief of

Yours sincerely,

C. M. A.

CATALOGUES RECEIVED.

The Union Nurseries, H. W. van der Bom, Dir., Oudenbosch, Holland. McHutchison & Co., 17 Murray St., New York, sole agents. Wholesale trade list for 1907-08, of forest and ornamental trees, spring-flowering and forcing plants, conifers, etc. The list is very complete, illustrated and printed in a style superior to most strictly wholesale catalogues.

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J. K. ALLEN 106 W. 28 ST. NEW YORK
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All Grades of Flowers for All Grades of Buyers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending June 29 1907	First Half of Week beginning July 1 1907		Last Half of Week ending June 29 1907	First Half of Week beginning July 1 1907
Roses			Carnations, Ordinary.....	.50 to .75	.50 to .75
Am. Beauty, fan and sp.	12.00 to 25.00	10.00 to 20.00	Sweet Peas (100 bunches)	1.00 to 5.00	1.00 to 5.00
" extra	6.00 to 10.00	6.00 to 10.00	Cattleyas	2.00 to 30.00	20.00 to 30.00
" No. 1.....	3.00 to 6.00	3.00 to 5.00	Lilies	2.00 to 4.00	2.00 to 4.00
" Lower grades .....	.50 to 2.00	.50 to 2.00	Callas	3.00 to 4.00	3.00 to 4.00
Bride, 'Maid, Golden Gate, fan & sp	4.00 to 6.00	3.00 to 5.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
" " Extra.....	2.00 to 4.00	2.00 to 3.00	Gardenias	2.00 to 10.00	2.00 to 10.00
" " No. 1 & lw. gr.	1.00 to 2.00	.50 to 2.00	Mignonette	1.00 to 2.00	1.00 to 2.00
Liberty, Richmond, fancy & special	4.00 to 8.00	4.00 to 8.00	Lilacs (100 bunches).....	..... to .....	..... to
" lower grades	1.00 to 2.00	.50 to 2.00	Peonies.....	.50 to 5.00	.50 to 5.00
Chatenay, Morgan, fancy and spec.	3.00 to 5.00	3.00 to 5.00	Adiantum.....	.50 to .75	.50 to .75
" lower grades	1.00 to 2.00	.50 to 2.00	" Crowanum	1.00 to 1.50	1.00 to 1.50
Killarney, Wellesley, fan. and spec.	4.00 to 6.00	3.00 to 5.00	Smilax	8.00 to 12.00	8.00 to 12.00
" lower grades.....	1.00 to 2.00	.50 to 2.00	Asparagus Plumosus, strings ...	20.00 to 25.00	20.00 to 30.00
Carnations, Fancy and Novelties ..	1.00 to 2.00	1.00 to 2.00	" & Spreng. (100 bchs.)	10.00 to 20.00	10.00 to 25.00

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DISCOUNT ON LARGER ORDERS
 GREEN and BRONZE GALAX, \$1.25 per 1000, LEUCOTHOE SPRAYS, \$1.00 per 100, \$7.50 per 1000
 \$7.50 Case of 10,000
 Let us have your standing order for Fern. BOXWOOD 20c lb., 50 lbs. \$8.50

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Send for Our Weekly Price List on Cut Flowers

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 Simple methods of correct accounting
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 Books Balanced and Adjusted
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 28 STATE ST., BOSTON
 Telephone, Main 58

BUSINESS CHANGES.

The New York Cut Flower Co. is the name of a new flower store at 1729 Fifth Ave., Pittsburgh, Pa., of which Mr. Marshall is the proprietor.

B. B. Carpenter has purchased the greenhouses of J. G. Harris of Pittsburgh, Pa., and will conduct them in addition to his present business.

The firm of Cunningham & Scott, Grand Rapids, Mich., was dissolved on July 1. Mr. Cunningham assumes all assets and liabilities and will continue the business.

The firm of Canger & Gormley, Chicago, has been dissolved. Mr. Canger will continue in business at 27 State St., and Mr. Gormley will return to the Fleischman Floral Co.

The firm of Dailedouze Brothers, Flatbush, Brooklyn, N. Y., was dissolved on July 1 by mutual consent. Paul and Henry have retired and Eugene will carry on the business under the same firm name.

The firm of H. A. Stevens & Co., Dedham, Mass., has dissolved by mutual consent of the partners. H. A. Stevens retires and the business will be conducted by a new firm composed of James Wheeler and John Flood. Mr. Stevens will go into business in Dedham as a carnation grower, under his own name, and will erect a modern house this summer on land recently acquired.

Welch Bros. have opened a new entrance to the basement floor of their wholesale establishment in Boston, and Paul Rajsik will occupy a portion of the basement as a manufactory of wire designs.

Best Flowers in the Boston Market

N. F. MCCARTHY & CO.
 84 HAWLEY STREET
 BOSTON, MASS.

SEND FOR PRICES

Headquarters in Western New York FOR
ROSES, CARNATIONS
 And all kinds of Seasonable Flowers
Wm. F. Kasting Co.
 Wholesale Commission Florist, also Dealer in
 Florists' Supplies and Wire Designs.
383-87 ELLICOTT ST.
BUFFALO, N. Y.
 Give us a trial. We can please you.

HENRY M. ROBINSON & CO.

WHOLESALE FLORISTS
 FRESH CUT FLOWERS, CUT EVERGREEN, AND FLORISTS' SUPPLIES.
 15 Province St. & 9 Chapman Pl., Boston, Mass.

WHOLESALE FLOWER MARKETS. PER 100. TO DEALERS ONLY.

	CINCINNATI July 1	DETROIT June 24	BUFFALO July 1	PITTSBURG July 1
ROSES				
Am. Beauty, Fan. and Sp.	25.00 to 25.00	25.00 to 35.00	20.00 to 22.00	20.00 to 25.00
Extra	20.00 to 25.00	20.00 to 25.00	15.00 to 20.00	10.00 to 15.00
No. 1	10.00 to 15.00	18.00 to 20.00	8.00 to 15.00	6.00 to 8.00
Lower grades	5.00 to 8.00	6.00 to 10.00	3.00 to 5.00	1.00 to 2.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	6.00 to 8.00	7.00 to 8.00	6.00 to 8.00
Extra	4.00 to 5.00	4.00 to 6.00	6.00 to 7.00	3.00 to 4.00
No. 1 & lw. gr.	2.00 to 3.00	2.00 to 4.00	2.00 to 6.00	1.00 to 2.00
Liberty, Richmond, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	6.00 to 8.00
Lower grades	3.00 to 4.00	2.00 to 4.00	3.00 to 10.00	2.00 to 4.00
Chatenay, Morgan, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	6.00 to 8.00
Lower grades	3.00 to 4.00	2.00 to 4.00	3.00 to 10.00	1.00 to 2.00
Kaiserin, Carnot, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	6.00 to 10.00
Lower grades	4.00 to 5.00	2.00 to 4.00	3.00 to 10.00	2.00 to 4.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	6.00 to 8.00
Lower grades	2.00 to 4.00	2.00 to 4.00	3.00 to 10.00	2.00 to 4.00
CARNATIONS				
Fancy and Novelties	1.50 to 2.00	3.00 to 4.00	1.50 to 2.50	1.50 to 2.50
Ordinary	1.00 to 1.50	.75 to 2.00	1.00 to 1.50	.75 to 1.00
MISCELLANEOUS				
Sweet Peas	.25 to .50	.25 to .50	.20 to .50	.25 to .75
Cattleyas	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00
Lilies	8.00 to 10.00	15.00 to 20.00	8.00 to 12.00	4.00 to 8.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Gardenias	1.00 to 2.00	1.00 to 2.00	2.00 to 10.00	10.00 to 12.50
Mignonette	1.00 to 2.00	25 to 1.00	1.00 to 2.00	1.00 to 1.50
Adiantum	1.00 to 1.00	1.00 to 2.00	.50 to 1.50	1.00 to 1.50
Smilax	12.00 to 15.00	12.50 to 15.00	15.00 to 20.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 75.00	40.00 to 50.00	75.00 to 50.00
" & Spreng. (100 bchs.)	25.00 to 25.00	30.00 to 40.00	25.00 to 50.00	20.00 to 40.00

Southern Wild Smilax
Beaven's Fadeless Moss
Natural Sheet Mosses
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 Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

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 We manufacture all our
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PRICES QUOTED IN THESE COLUMNS ARE FOR DEALERS ONLY When Writing to Advertisers Please Mention Horticulture

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIA PUBESCENS

Albert Dirwanger, 422 Congress St., Portland, Me.

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ACCOUNTANT

B. J. Dysart, 28 State St., Boston.

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ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

AGAVES

M. Bullocke, 85th St. and 2d Ave., Brooklyn, N. Y.

Variegated Agaves.

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Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,

51 and 52 N. Market St., Boston.

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A. Leuthy & Co., Roslindale, Mass.

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ASPARAGUS

C. Eisele.

11th and Roy Sts., Philadelphia, Pa.

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Wm. C. Smith, 61st and Market Sts., Philadelphia.

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John C. Hatcher, Amsterdam, N. Y.

Asparagus Sprengerii.

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Asparagus Sprengerii, 2 1/4 in.; ready for planting out or into larger pots, \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rates. J. F. Anderson, Short Hills, N. J.

Asparagus plumosus nanus and Sprengerii, 2 1/2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2 in., \$3.00; 3 in., \$6.00; 4 in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2 in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 355 Ellicott St., Buffalo, N. Y.

ASTERS.

Sample's Asters, fieldgrown, ready to plant out. White, Shell Pink, Bright Pink and Purple, \$2.50 per 1000. Olmstead's white, best second early Aster for florists' use in cultivation, \$3.00 per 1000. Rosbach's Commercial Late, Shell Pink, Rose and Purple. (White all sold.) The best Aster to date, \$3.50 per 1000. A. & G. Rosbach, Pemberton, N. J.

AUCTION SALES

Bedding plants, trees, shrubs, conifers, bay trees, etc., every Tuesday and Friday. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

AZALEAS

A. Leuthy & Co., Roslindale, Mass.

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John Scheepers & Co., 4 and 6 Old Slip, New York.

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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

BAY TREES—Continued.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.

C. Eisele, 11th and Roy Sts., Phila.

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100,000 Bedding Plants, all sorts. Write for prices. E. D. Kaulback & Son, Malden, Mass.

Spring Bedding Plants in variety at auction every Tuesday and Friday during spring season. Purchases made on order. Mail your bid. N. F. McCarthy & Co., 84 Hawley St., Boston.

BEGONIAS

Begonias—Fairy Queen, Gracilis, and other flowering kinds; 3 inch \$5 per 100. Harlowarden Greenhouses, Greenport, L. I.

Begonia Gloire De Lorraine for delivery after August 1st, rooted cuttings, 2-4 in. pots, \$12 per 100; \$100 per 1000. Orders filled in strict rotation. Send them in now and avoid disappointment. Julius Roehrs Co., Rutherford, N. J.

BOILERS

Kroeschell Bros., 35 Erie St., Chicago.

BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOXWOOD

Anton Schulthels, College Point, N. Y.

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BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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Rickards Bros., 37 East 19th St., New York.

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Johnson Seed Co., 217 Market St., Phila.

Begonias; Tuberoses.

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John Scheepers & Co., 4 and 6 Old Slip, New York.

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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.

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James Vick's Sons, Rochester, N. Y.

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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

CANNAS

The Conard & Jones Co., West Grove, Pa. For page see List of Advertisers.

3 1/2 and 4 in. Penna. Canna, at 3c.

U. G. Harglerode, Shippensburg, Pa.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md. Carnation Mabelle.

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F. Dörner & Sons Co., Lafayette, Ind.

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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CHRYSANTHEMUMS

Castle Grove Greenhouses, Danville, Pa.

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Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting Co., 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums—All good late kinds, standard novelties out of 2 1/2 inch, up to September 1. Harlowarden Greenhouses, Greenport, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

Nothing worth growing but the best. Oct. Frost, Beatrice May and Nivena our most profitable white.

Rosiere, M. F. Plant, Mayor Weaver, grand new pinks, Pres. Roosevelt, the glorified Pink Ivory, Santa Claus the Xmas pink. Strong plants topped back 8c., R. C., 5c.

C. Tousey, Mrs. Duckham, Oct. Sunshine, Monrovia, strong plants, 5c.; R. C., 3c.

J. K. Shaw, best early pink, Wm. Duckham, Enguehard, also Adella, incurved white and Jeanne Nonin, the only late white; plants 3c., R. C., 2c. City greenhouses, Union City, Pa.

COLEUS

Coleus, Golden Bedder, from 2 1/2 in. pots, \$2.00 per 100. W. H. Mann, Stoughton, Mass.

Coleus, R. C., mixed, 50c 100; 2 in., 1c to clean up. Cash. U. G. Harglerode, Shippensburg, Pa.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Wm. H. Moon Co., Morrisville, Pa.

American Arborvitae.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston. For page see List of Advertisers.

Edwards Folding Box Co., Philadelphia.

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Getmore Box Factory, Inc., Belleville, Ala. Light Wood Boxes.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.

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Giant Hybrids transpl. ready for 2 in. and 3 in., \$3.50 100; \$30.00 1000. 3 in. strong, \$8.00 per 100. Plants grown of seed taken from the cream of my well known strain. Christ, Winterich, Cyclamen Specialist, Deane, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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Dahlias, strong field roots, good assortment to exchange for plants of Carnation Boston Market, Enchantress. H. W. Mann, Stoughton, Mass.

DECORATIVE PLANTS

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K. E. Juul, Elizabeth, N. J.
Dracaena Indivisa.

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Anton Schultheis, College Point, N. Y.
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Dracaena terminalis from bench, fine, \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

FERNS

Baur Floral Co., Erie, Pa.

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Boston and Scottil Ferns.

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Stumpp & Walter Co., 50 Barclay St., New York.

Ferns in Plants.

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Boston ferns, fine young plants, \$1.00 and \$2.00 per 100. U. G. Harglerode, Shippensburg, Pa.

FICUS

Baur Floral Co., Erie, Pa.

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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-3 Bowery, New York.

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Koral Mfg. Co., 26 Hawley St., Boston.
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Decorative Evergreens.

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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.

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Park Floral Co., Denver, Colo.
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David Clarke's Sons, 2139-2141 Broadway, New York.

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W. H. Donohoe, 2 W. 29th St., New York.

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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GARDENIAS

John Scott, Rutland Rd., and E. 45th St., Brooklyn, N. Y.

Gardenia Veitchii.

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R. Vincent, Jr., & Son, White Marsh, Md.
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Geraniums—Jean Viaud, 4 in., \$6.00 per 100; Mme Sallerol, 2 in., \$2.50 per 100. William Doel, Pascoag, R. I.

4000 Geraniums, S. A. Nutt. Poitevine, White, John Doyle, \$6.00 per 100. Good plants. Burgess & Cooney, 77 Lebanon St., Maplewood, Mass.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladliol. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.

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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,

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D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

Fancy Ferns.

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E. A. Beaven, Evergreen, Ala.

Fadeless Sheet Moss.

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Crowl Fern Co., Millington, Mass.

Fancy and Dagger Ferns.

A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

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M. H. Walsh, Woods Hole, Mass.

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Kroeschell Bros., 35 Erie St., Chicago.
Johnston Heating Co., 1133 Broadway, N. Y.

In writing to Advertisers kindly mention Horticulture

HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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IVY

Chas. Lenker, Freeport, L. I., N. Y.

English Ivy.

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INSECTICIDES.

Nicotine kills all greenhouse pests.

P. R. Palethorpe Co.,

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Yokohama Nursery Co., 31 Barclay St., New York.

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David Clarke's Sons, 2139-2141 Broadway, New York.

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W. H. Donohoe, 2 W. 29th St., New York.

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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.

Long distance telephone connections.

LOBELIAS

LOBELIA KATHLEEN MALLARD.

New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.

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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

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NURSERY STOCK

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Specimen Nursery Stock.

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Berberis Thunbergii.

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New England Nurseries, Bedford, Mass.

Shrubs, Roses and Herbaceous Perennials.

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Importers, Exporters, Growers, Hybridists.

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Orchids, Orchid Baskets, Peat.

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August Rolker & Sons, 31 Barclay St., New York.

Kentia Palms.

Kentia-Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

Benj. Hammond, Fishkill-on-Hudson, N. Y.

PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.

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PEONIES

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

Peony and Phlox Manuals, 25 cents each. One of the finest collections of Peonies in America. C. S. Harrison's Select Nursery, York, Nebr.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.

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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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American Beauty and Richmond.

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Low-budded roses, No. 1, \$95.00; No. 11-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

1500 American Beauty Plants in 4 in. pots, at \$10.00 per 100; \$80.00 per 1000. Address John Klotzmann, Madison, N. J.

Roses, Bride, Bridesmaid, Ivory, 2 1/2 in., shifted from 2 in., \$3.00 per 100; \$25.00 per 1000. Wm. B. Sands, Lake Roland, Md.

The beautiful new pink rose, MISS KATE MOULTON is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500 \$125.00; 1000 \$200.00; 5000 and upwards \$175 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

SALVIAS

John Scott, Rutland Rd., and E. 45th St., Brooklyn, N. Y.

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Francis Brill, Hempstead, L. I., N. Y.
Garden Seeds.

I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

Surplus Garden Peas—50 bu. Alaska,
\$3.25 per bu.; 40 bu. First and Best, \$2.00
per bu. New crop northern Michigan
grown; none better. W. F. Allen, Salls-
bury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Mar-
ket St., Boston.
Pulverized Sheep Manure.
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SHEET MOSS

E. A. Beaven, Evergreen, Ala.
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SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin,
\$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00
per 1000, \$25.00 per 5000; Turner red rasp-
berry plants, \$6.00 per 1000, \$25.00 per
5000. W. F. Allen, Sallsbury, Md.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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STEVIA

C. Elsele, Philadelphia.
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STRAWBERRY PLANTS

Strawberry plants, 90 best varieties,
stock unexcelled. Ask for prices on what
you want. W. F. Allen, Sallsbury, Md.

VEGETABLE PLANTS

Millions of vegetable plants. Fifteen
varieties cabbage, \$1.00 per 1000. Cash.
Catalogue. F. M. Pattington, Scipioville,
N. Y.

Danish Ball Head Cabbage—Strong,
straight root-pruned plants, ready for field,
from the best imported seed, \$1.50 per 1000.
Frank Shearer & Son, Market Gardeners,
Binghamton, N. Y.

50,000 large 4-year old Barrs Mammoth
Asparagus roots, \$6.00 per 1000; \$25.00 per
5000. (500 will fill a sugar barrel.) Ad-
dress W. F. Allen, Sallsbury, Md.

We can furnish Strawberry plants and
Asparagus roots from April first to Decem-
ber first. Spring prices hold until August
first. Hitchcock's Nursery, Agawam,
Mass.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Chicago.
The Chicago Lifter.

VENTILATING MACHINERY, New
Model encased, self-oiling gear; Standard
Model Open Gear. Lord & Burnham, 1133
Broadway, N. Y.

VIOLETS.

H. A. Molatsch & Son, Nanuet, N. Y.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 88-40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

All standard frames in stock. Special de-
signs made to order in hurry-up time. N.
F. McCarthy & Co., 84 Hawley St., Bos-
ton, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for
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*WHOLESALE FLORIST.

Fred Ehret, 1407 Fairmount Ave., Philadelphia, Pa.
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HELP WANTED

WANTED—Single head gardener on private estate with first-class experience under glass and outside. Protestant. Wages \$50 to \$60 per month and board. Reply to "Gardener," No. 6 South Market Street, Boston, Mass., care of R. & J. Farquhar & Co.

SITUATIONS WANTED

SITUATION WANTED

As working foreman or head gardener. Age 38; married. Best of references. New England preferred. H. W., care HORTICULTURE.

FOR SALE

Peony and phlox manuals, 25 cents each. One of the finest collections of peonies in America. C. S. Harrison's Select Nursery, York, Nebr.

FOR SALE—Cheap. 10,000 flower pots, assorted sizes, 2 in. to 12 in. Jos. B. Anders, Hatfield, Pa.

MISCELLANEOUS WANTS

I want second-hand Greenhouse glass. Price must be low. H. Taylor, Box 132, Quincy, Mass.

AMERICAN PEONY SOCIETY.

The fourth annual meeting of the American Peony Society took place on June 27 and 28 in the new buildings of the New York State College of Agriculture at Cornell University, Ithaca. The old officers were re-elected, and directors chosen as follows: E. A. Reeves of Cleveland, O., for one year; J. F. Rosenfeld, West Point, Nebr., two years; G. T. Thurlow, West Newbury, Mass., three years. Ten new members were elected, making a membership of 52. The treasurer reported \$500 in the treasury. Two new committees were appointed, one on new varieties, one on diseases. Arrangements were made for the nomenclature committee to publish a registry of new varieties.

L. H. Bailey delivered the address of welcome. J. Eliot Coit read a valuable paper on the history and present status of the peony. The officers of the society are: President, C. W. Ward, Queens, N. Y.; vice-president, Wm. A. Peterson, Chicago; secretary, A. H. Fewkes, Newton Highlands, Mass.; treasurer, J. H. Humphreys, Germantown, Pa. Further details of the meeting are crowded out this week.

CLUB AND SOCIETY NOTES.

The rose show of the Victoria Horticultural Society, Victoria, B. C., was held on June 28.

July 21 has been selected as the date for holding the picnic of the Chicago Florists' Club, and Morton Grove the place.

The annual picnic of the Rock River Horticultural Society was held on June 27 at the home of Albion Seavey, Palmyra, Ill.

The peony and rose show of the Hampden County Amateur Horticultural Society of Springfield, Mass., was held on June 27 and 28. E. J. Shaylor of Wellesley Hills showed over 50 varieties of peonies; J. W. Adams & Co., peonies and hardy flowers; L. D. Robinson, pansies; E. M. Hedges, peonies; and there were fine exhibits by a large number of amateurs.

The Bulletins of the American Association of Park Superintendents are now being offered for sale to interested persons for twenty-five cents per copy. Four numbers have already been issued. These contain summaries of experiences of leading superintendents, on various topics of live interest to those interested in ornamental work. For copies, address, F. L. Mulford, Sec'y-Treas., 75 N. 16th Street, Harrisburg, Pa.

INCORPORATED.

L. H. Smith Nursery Co., Council Bluffs, Ia.; L. H. Smith, M. H. Riley; capital stock, \$10,000.

Grandview Nursery and Orchards Co., Des Moines, Ia.; Chas. Worth, D. H. Hooker, H. P. Holmes; capital, \$50,000.

The Henry Field Seed Co., Shenandoah, Iowa; president, Henry Field; vice-president, Chas. Simpson; secretary and treasurer, H. E. Eaton; capital stock, \$75,000.

DETROIT OBSERVATIONS.

Robert Klagge, always dangerous when he does get started, is putting up two new Atlas boilers 8x17 with consequent extensive alterations to his boiler room. He has torn down two of his old houses and will replace them with new ones. At present he contributes to the Detroit market most liberally from an elegant crop of Kaiserin roses. Somehow they always reach the wholesaler when most scarce. Talk about practical liberality? Robert is it.

Our parks are this year looking better than ever and the public is fully aware of it. Palmer park, that great gift of our never to be forgotten Senator Thos. Palmer has been adorned with a beautiful and practical shelter. The entrance from Woodward Avenue has been adorned with hardy shrubs. The dust question of our boulevards has been settled by a special sprinkling medium. A very highly appreciated feature of Belle Isle park is the placing of 150 large square flower boxes along its main avenues. Over 30,000 plants were used to fill these boxes and the sight is simply beautiful.

This was the second year of overhauling of our parks. Old shrubs have been taken out and replaced by newer and better varieties. The benefit of such works is two fold; first the parks themselves are improved and secondly the layman's scope of knowledge and desire for plants to adorn his home garden with is widened.

I doubt whether Detroit would boast of these things were it not in the fortunate possession of a park commissioner who belongs to the only craft from whence they all should come, namely, the florist craft.

A UNIFORM BILL OF LADING.

A binding agreement between shippers and the railroads, a dream of American commerce, in the form of a uniform bill of lading, practically has been agreed upon. Representatives of commercial interests and all the trunk lines of the country have settled upon the form of the new bill and the Interstate Commerce Commission has concurred. It will be submitted for the ratification of the railroad and commercial interests of the country early in July.

The effect of the ratification will be to make the new bill of lading a part of the interstate commerce law. The shippers then will have the thing for which they have clamored for the last decade—a railroad receipt binding on the carriers.—Chicago Press Despatch.

On August 7, the first issue of a new paper, devoted to market gardening will make its appearance. The title will be The Market Growers' Journal and it will be published weekly at Louisville, Ky., by a corporation of which C. F. Wood of Wood, Stubbs & Co., is to be president and in which a number of other gentlemen influential in the produce and fruit trade are interested. We wish them abundant success.

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OBITUARY.

James Murray.

After an illness of two months' duration James Murray passed away at his residence in Newport, R. I., on June 29. Mr. Murray was born about sixty-three years ago near Kilmarnock, Scotland, and came to this country twenty-six years ago, entering the employment of the late Mr. Buchanan at Astoria, L. I., and going next to the estate of J. Hull Browning at Tenafly, N. J. Later he took a position as gardener for Henry Clews at Newport, where he remained until illness last April compelled his retirement. Mr. Murray was held in high esteem by all who knew him. He was a gardener of extensive experience gained in early and middle life. He is survived by a widow, two sons and a daughter.

Other Deaths.

Prof. David A. Durward, assistant in the agricultural department at the Mt. Hermon School for Boys, East Northfield, Mass., was drowned on July 2 by the upsetting of his canoe. Prof. Durward was 25 years old, a graduate of Cornell Agricultural School, class of 1906. His home is in Claremont, N. H.

A. Relyea of the firm of Relyea & Son, Poughkeepsie, N. Y., was struck and instantly killed by a switch engine near the Central New England station. He was about 60 years of age. A widow and son survive him.

John Halliday of Lynchburg, Va., was killed by a train on the Southern Railway on the evening of June 26. He was an uncle of the Halliday Brothers of Baltimore. He leaves two daughters.

NEWS NOTES.

The Harman Greenhouses at Iola, Kan., have been bought by J. W. Primmer.

Albert Batley of Maynard, Mass., is installing two large boilers for heating his houses.

A petition in bankruptcy has been filed against the Albaugh Nursery & Orchard Co., Phoneton, O.

The greenhouses being erected by Frank & Sons near Portland, Ind., were damaged by the wind storm on June 23.

J. H. Cleary formally opened his new store in New Bedford, Mass., on June 26. An orchestra was in attendance and carnations for the ladies and cigars for the gentlemen were dispensed.

The Lakeside Floral Co. have begun work on a business block at Calumet, Mich., which will have a frontage of 58 feet. A conservatory will be located on the south side. They are also doubling the capacity of their plant at Chassell.

Andrew T. White of Brooklyn, N. Y., has offered to give \$50,000 if the city will raise \$250,000 more and maintain an arboretum. A bill to help the project has been passed at Albany and the directors of the Brooklyn Institute of Art and Sciences have asked Comptroller Metz to have the Arboretum located on the ground back of the Institute.

GREENHOUSES BUILDING OR CONTEMPLATED.

New.

Reading, Mass.—Ansel Richards, two houses.

Philadelphia, Pa.—George B. Morris, house 20x100.

Orange, Mass.—Alfonso Faneuf, cucumber house, 150 ft.

N. Milwaukee, Wis.—Mueller, Schrader Co., Inc., three houses, each 20x150; Manke Carnation Co., house, 23x160.

Additions.

Ridgefield, Ct.—Wm. Pinchback, Jr., one house.

Prophetstown, Ill.—Geo. Hilger, 50 ft. extension.

Columbus, O.—C. A. Roth, carnation house, 30x100.

Waterloo, Neb.—J. C. Robinson Seed Co., house, 27x87.

Fairhaven, Mass.—Peter Murray, four houses, each 22x150.

Somersworth, N. H.—G. S. Ramsburg, carnation house, 100 ft.

Wollaston, Mass.—Wm. Patterson, one house, 125 ft., carnation house, 75 ft.

Montreal, P. Q.—McKenna & Son, propagating house; House & Robinson, carnation house, 25x500.

Kansas City, Mo.—Wm. L. Rock Flower Co., fern house; G. M. Kellogg, five houses, each 50x150.

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- 856,237. Cultivator Foot. Charles L. Ferriott, Temple, Texas.
- 856,240. Wheeled Plow. Albert B. Frenier, Davenport, Iowa.
- 856,269. Mowing Machine. John W. Latimer, Chicago, Ill., assignor to International Harvester Co., a Corporation of New Jersey.
- 856,485. Hand Fertilizer Distributer. Windfrey S. Morgan, Lewisville, Ark.
- 856,632. Manure Spreader. Glen G. Griswold, Madison, Ohio.
- 856,633. Replanter Attachment. Lycurgus Gudgell, Lockridge, Iowa.
- 856,697. Mower. William W. Hare and Henry H. Hare, Noblesville, Ind., assignors of one-third to Albert Garver, Otisco, Ind.
- 856,916. Harrow Attachment. Karl Schaal, Seward, Neb.
- 856,929. Pea and Bean Harvesting and Threshing Machine. Ernest Tharp, Jr., Norfolk, Va., and Benaiah Tharp, Jr., Harrington, Del.



The Best
Bug Killer and
Bloom Saver

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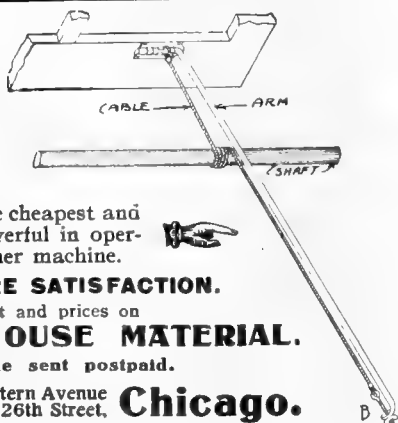
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The Mower

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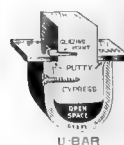
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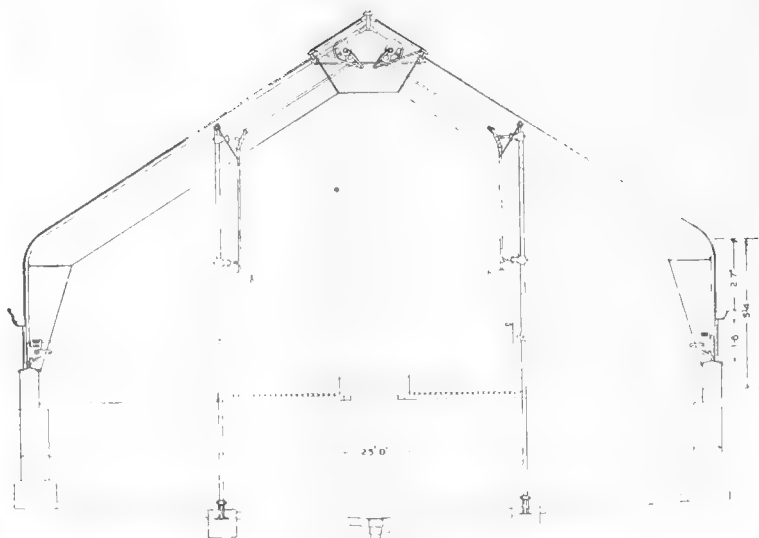
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This Section shows an Inside Border with Cement Bottom and Drainage Point. The Slat Walks allow the Air and Sun to Reach the Soil.

HORTICULTURE

Vol. VI.

JULY 13, 1907

No. 2



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\$6.00 per 100

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Grafted Killarney 4 in.,\$18.00 per 100
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Adiantum Hybridum 2 in. pots, strong plants
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50 and 75c each

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Asparagus Plumosa Nanus 3 in. pots,	\$7.00	\$65.00
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3000 Brides } 3½ inch, - - \$6.00 per 100
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7000 to 8000 American Beauties, 2¾ inch, \$80.00 per 1000; 3 inch, \$100.00 per 1000

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SOME GIVE YOU QUALITY
I GIVE YOU BOTH

Boston and Scotti Ferns

6-inch pots, \$40.00 per 100

LARGE BOSTONS, AT \$1.00 AND \$1.50 EACH
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We can furnish these ferns, grown separately, each flat containing any one of the following sorts, ferns all good salable varieties.

<i>Aspidium tsussimense</i>	<i>Pteris Gilbertii</i>
<i>Cyrtomium Falcatum</i>	<i>Serrulata</i>
<i>Pteris Adiantoides</i>	<i>Serrulata</i>
<i>Cretica alba lineata</i>	<i>cristata</i>
<i>Cretica magnifica</i>	<i>Serrulata</i>
<i>Hastata</i>	<i>variegata</i>
<i>Mayii</i>	<i>Wimsettii</i>

Mixed varieties.

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Begonia "Agatha" (Veitch), quite an improvement on *Gloire de Lorraine*; stronger, larger flowers, better color: now ready, \$25.00 per 100.

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Splendens Giganteum Hybrids

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Trees	Diam. of Bait	Price per pair
100	36 inches	\$18.00
100	30 inches	12.00
100	24 inches	8.00

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50 trees, 8 ft. high, 2 ft. in diameter \$25.00
Price on larger sizes upon application.

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A limited number of

ACACIA PUBESCENS

Plants, two years old, from two to four feet high, now ready for delivery.

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Boston, 3 in. 8c. **Piersonii**, 3 in. 8c; 6 in. 35c. **Barrowsii**, 3, 4 and 5 in., 10, 15 and 35c. **Scottii**, 4, 5 and 6 in., 12, 25 and 35c.

Asparagus Sprengerii, 3 in., 4c.

ROSES, own root, *Bride*, *Bridesmaid*, *Golden Gate*, *Ivory*, *Perle*, 3 in. 4c; *Meteor*, *Chatenay*, 4 in. 7c. Root grafted, *Bride*, *Bridesmaid*, *Perle*, 3 in. 6c.

Swansonia Alba, 2 in. 3c.

POINSETTIAS

July delivery, 2¼ in., \$5.00 per 100, \$45.00 per 1000; 3 in., \$7.00 per 100.

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BAUR FLORAL CO., Erie, Pa.

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\$10 per 100

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German pot-grown, true to name, white and blue, single and double, fall delivery. No better grade imported than ours. The assorted case of fifty plants, thirty-four dollars, duty paid, f.o.b. N. Y. Send your order to

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FOR SALE, ranging in size from 8 ft. high to 6 inches. Will sell cheap on account of moving.

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5000 Gloire de Lorraine Begonias

2 1-2 inch pots, ready for 3. Fine, Healthy Plants. FULL OF SHOOTS

\$10 per 100 \$90 per 1000

Money Refunded if not Satisfactory.

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500 Madam Chatenay,	-	-	2 year old, in 5 and 5½ inch pots.
500 Killarney,	-	-	2 year old, in 5 and 5½ inch pots.
200 Richmond,	-	-	2 year old, in 5 and 5½ inch pots.
200 American Beauty,	-	-	2 year old, in 5 and 5½ inch pots.

Also other Choice Varieties, \$25 00 per hundred.

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SEPTEMBER**

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to plant

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PERENNIALS**

CATALOGUES FREE

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The BAY STATE NURSERIES, North Abington, Mass.

Trees, Shrubs and Roses

In great variety. We grow about 1000 varieties Herbaceous Perennials. Estimates cheerfully given. Catalogues free.

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HARDY PERENNIALS

Yucca filamentosa, *Aconitum Napellus* and bicolor. *Helenium superbum* and striatum. *Rudbeckia*, *Hemerocallis*. German Iris, many colors. Hardy Phlox, 20 varieties. *Funkia subcordata*. Write for prices to

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Beautifully illustrated catalog, colored plate, etc., describing Groff's Hybrids, Named Novelties of rare beauty; Mixtures and Collections to color and fine Mixtures of all colors. Write for it.

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Gladiolus Specialist

MEADOWVALE FARM, BERLIN, N. Y.

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3500 Polly Rose, 500 Halliday, 400 Duckham, 300 each, Vallis, Mrs. W. B. Chamberlain, 200 each, Ben Wells, Mrs. Coombs, Col. Appleton, Gen. Hutton, Salter, 100 each, Maud Dean, Cahusac, Cheltonii, Nellie Pockett, Yanoma, Mrs. Jerome Jones, in 2½ in. pots, \$3.00 per 100, \$25.00 per 1000.

Cash with order, please.

A reasonable offer for THE ENTIRE LOT will be accepted.

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Lady Gay THE FAMOUS RAMBLER ROSE

2¼ in. Pots, \$10.00 per 100

3½ in. Pots, 12.50 per 100

Ready to Pot On or Line Out in the Field

Thomas Roland
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LADY GAY AND HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

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WOODS HOLE, MASS.

CANNAS

We have a few good kinds left

RED, YELLOW and PINK

Also 2 1-2 in. ROSES. Get our List.
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New and Rare Plants

NEW ROCHELLE, N. Y.

New York Office, Siebrecht Building, 425 Fifth Avenue.

German Iris

THEIR CULTURE

This very late cool season has a number of advantages, and perhaps not the least of these is the length of the flowering period of hardy herbaceous perennials. The German irises have been in bloom more or less for two weeks, and at this writing are just coming into full beauty, those in bloom two weeks ago still making a pretty showing.

Those who intend planting a bed of "Hardy Orchids" should make their preparations now if possible, and have planting all done by the end of this month. Have a foot of good rich loam in a fairly dry position, making sure that no superfluous water will stand on the plants during winter months. It is very important that the roots are planted straight down; rather shorten the roots than turn the ends up, and—most important of all—do not plant too deep; the rhizomes must be out of the ground to insure profuse blooming. If you will look at any *Iris Germanica* clumps that have been planted some time you will find more than half of each rhizome out of the ground.

SOME STANDARD KINDS

It is almost impossible to describe in detail the different species to which the large number of varieties belong; in fact we are getting very much mixed in tracing varieties to their respective origins. It is of the standard kinds that the following descriptions are given.

The beautiful Florentine Iris or orris root is the first to bloom, soon followed by its mate *spectabilis*, the former with large white flowers delicately tinted lavender, the latter deep velvety purple flowers of large size. *Pallida Mandraliscae* comes next with standard and falls of a deep rich purple. The following usually come into bloom in rapid succession.

Pallida dalmatica. The best of the light lavender, with spikes well above foliage, flowers light clear lavender, drooping petals tinted rose.

H. Cramer. Standard and falls pale lavender, falls somewhat darker, a very free bloomer.

Asiatica. Very large flower deep rich purple, falls velvety.

Aurea. Clear bright yellow.

Victorine. One of the most striking. Standard pure white slightly blotched purple, falls rich velvety purple.

Mme. Neubronnes. Golden yellow, the finest of this color yet introduced.

Gypsy Queen. The best of the smoky varieties. Standard cloudy coppery yellow, falls deep rich velvety maroon.

Trautlieb. Clear delicate pink, the prettiest of this shade.

Inezenza. Pure white.

Mme. Paquette. Large flower, deep purple lilac, falls darker.

Gracchus. Standards clear light yellow, falls crimson veined white, a striking variety.

Flavescens. Clear delicate pale yellow.

Her Majesty. A very handsome distinctive variety with light rosy purple standards and dark red purple falls.

Queen of May. A delicate soft lilac pink, very effective and showy.

Mme. Chereau. An old variety, but still one of the

leaders; pure white frilled and margined light lavender.

Honorabilis. Deep golden yellow, with bronze falls.

Mrs. H. Darwin. One of the best whites and a very free bloomer, falls veined purple.

Frederic J. Rea.

Paeony Notes from Stonycroft Gardens

The first *Paeony Sinensis* to bloom was *Sarah Bernhardt* (Dessert). This paeony was found by Dessert in his grandfather's collection unnamed, and was named by him in 1895. It is a medium grower, free bloomer and is certainly four days earlier than anything else here. The flowers could have all been cut and out of the way before all others.

The next were *Duchess de Neumours* (Guerin) and *Whitleyi*. These came practically together, four to five days after *Sarah Bernhardt*. Then came *Mme. de Verneville*, the queen of all early bloomers. This variety has a very delicate and chaste bloom. Medium grower, profuse bloomer, and is an all round valuable variety.

Then follows the bulk of the midseason's blooms, with *Festiva Maxima* only a day or so in advance. This variety is an old standby for general admiration. It is tall and strong, but the flower is harsh and coarse in a mass. I know it is very generally admired, but it is inferior to *Festiva*, which is one of the delicate and charming flowers. For home use, *Festiva* is far superior to *Festiva Maxima*. I have no doubt that many admirers of the large robust *Maxima* will frown at my statement, but if you do, I ask you to grow them both, side by side, before you talk too strong.

One of the very best of white varieties to follow after the above, is *Avalanche*. It is an excellent all round variety. Then follows *Baroness Schroeder*, an excellent and charming late white. I am not sure but this is the best medium late white in existence. With this comes *Mirelle* and *Marie*, two excellent tall growing cream whites. These are not quite so late as the ivory-white *Marie Lemoine* (Calot), but they are worthy a place in any collection.

The fine golden yellow of *Courronne d'Or* is nearly equalled by *Mons. Dupont*. *Emilie Hoste*, the paeony sent us from Holland as of their own growing, is none other than this French variety *Mons. Dupont* renamed. The Holland growers would better let that business alone. They can at best only imitate a prominent English firm, and the better they imitate them the greater their failure in the end.

The newer French varieties such as: *Aurore*, *Mme. de Treyeran*, *Germain Bigot*, *Rosa Bonheur*, *Therese*, *M. Martin Cahuzac* and others lately introduced, are at the top of all delicate colors. These varieties are yet scarce, but they are worth the price, and any one buying them will have the lively satisfaction when they bloom of knowing that the mass of paeonies cannot touch them.

E. J. Shaylor.

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Preparing for the convention

Are you planning to go to Philadelphia next month? The intervening time is short and preparations made with deliberation well in advance go far to assure the pleasure such a trip should afford.

Consult your State vice-president about railroad rates and give him early information of your intentions so that he may know something of the number to be provided for; write to the hotel committee for accommoda-

tions; confer with your friends and try to induce them to go with you. They'll not regret going; no one ever does. One vice-president, Mr. Young of Missouri, has special rates all settled, list of the party and other details well in hand; how many others can say the same? Yet nothing goes further to insure a big and successful meeting than a line of hustling vice-presidents each taking pride in heading a delegation which in size and dignity will represent his State in a creditable manner.

Own your home

The older florists' and gardeners' clubs are now coming to quite a respectable age. As we occasionally read of one attaining its majority the thought comes to us that with the exercise of a little more self-reliance and far-seeing business judgment many of these organizations might today have something more substantial than a record of usefulness from year to year and a balance of a few hundred dollars in the hands of the treasurer; might, in fact, be in possession of a remunerative property appreciating in value as time passes and furnishing a permanent home with all the advantages, material and social, which such an asset always carries with it. Located, as the florists' associations are, almost invariably within the limits of some enterprising city, the selection of a corner lot on the line of future real estate advancement and the securing of the funds necessary to erect a building thereon should be a simple matter. That every club and society has within its ranks men well qualified to manage such a property in its interest and willing to assume such responsibility goes without saying and there seems no good reason why the financial history of the Massachusetts Horticultural Society showing the accumulation of a million dollars within a period of seventy-five years, largely through wise real estate investments, might not be paralleled in the case of many other organizations of like character.

Reclothing the "hogbacks"

Mr. Oberlin's paper on the "hogbacks" of Pennsylvania, which appears elsewhere in this issue presents a very vivid picture of what these barren spots must be. The author makes no attempt to account for the existence of these refractory excrescences but we may infer from some of his remarks that he regards them as natural features of the ground. It is more than likely, however, that these, as well as the depressed areas surrounding them were once covered with good soil supporting forest growth and that their present condition is only the inevitable result of erosion by fire and flood after the stripping of the forest growth. Our original settlers gave no thought to the ultimate effects of forest clearing and that we of today are not much better is painfully in evidence when we contemplate the processes which are making of our rugged mountains and hills gigantic hogbacks on which our descendants will spend much fruitless labor in the endeavor to restore a fertility which can only come after ages of slow repairing through Nature's means. It is certainly a most laudable aim to turn these places to the production of plants and flowers of commercial value but we have always supposed that Pennsylvania offered an abundance of fertile land for such purposes and if the Berks county "hogbacks" are to be started off for any permanent condition of verdure we think that something quite different from peas and hydrangeas will have to be resorted to. In this connection we would advise a perusal of Gifford Pinchot's two little volumes on Practical Forestry, published by the Department of Agriculture, to anyone interested in the reclothing of such naked spots.

AFTER ADJOURNMENT.

The American Florist tells its readers that *Pteris tremula* is a good substitute for *Cibotium Schiedei*, a quick grower and cheap, and stands the rough usage of store or decorations well. We'll agree that it is "a quick grower and cheap"—very cheap—but it is not for a moment in the same class with *Cibotium Schiedei*.

Who in the world has a happier existence than the typical Rhinebeck violet grower? Makes enough from a small house or two in winter to build another house in summer, and the rest of the time he can devote to ball games and other social diversions. A bunch of these gentlemen attended the boat races on the Hudson recently, got arrested by the patrol for crossing the course, were set ashore at Hyde Park and their boat was confiscated until after the races. Thus do misfortunes steal in upon the course when we are all unsuspecting. Nevertheless, the Rhinebeck violet is still king.

The Journal of Horticulture (London) tells us that the dahlia was introduced by Dr. Dahl with the idea that the tubers would prove a pleasant substitute for the potato and that the acrid tubers of the dahlia are said to be still eaten by the unhappy wine-growers in the south of France, adding that this "perhaps contributes towards their present dyspeptic views of the universe." But are "dyspeptic views of the universe" confined exclusively to French wine-growers? And do the French growers drink the same brand of wine which one gets at the French Table d' Hotes in New York? Cannot the Dahlia Society take up the defence of its protegee?

Will some one of our botanical sharps kindly tell us the difference between *Kochia scorparia* and *Kochia trichophylla*. We are familiar with *K. scorparia* but when we see the foreign growers offering *K. trichophylla* we want light. They tell us that *K. scorparia* is called the Mexican Fire Plant although said to be not a native of Mexico or this continent. Why is that?

THE NEW PRESIDENT OF THE AMERICAN SEED TRADE ASSOCIATION.

See Frontispiece.

It was our pleasure to meet president-elect George S. Green for the first time at the memorable seed trade convention in New York city and it did not take long to realize that the Association had found in this quiet, earnest, kindly gentleman a president who will fill the position with dignity and credit. Mr. Green has been president of the Illinois Seed Company of Chicago since 1901, previous to which time he had been interested in the seed business in St. Louis, Chicago and Colorado Springs, his first association with the trade having been with D. I. Bushnell & Co., at St. Louis, from 1881 until 1893. Mr. Green is a native of Hannibal, Mo.

NEPHROLEPIS AMERPOHLII.



PERSONAL.

R. E. Akehurst of White Marsh, Md., and Miss E. Beall were married on June 26.

Miss Esther Heacock, daughter of Joseph Heacock of Wyncote, Pa., sailed June 29 on a European trip.

William Hewitt, gardener for A. C. Lincoln, Brookline, Mass., has gone to Scotland on a two months' vacation.

J. B. Heiss and wife of Dayton, Ohio, sailed from New York on July 9 via S. S. Kaiser Wilhelm II. for a trip through Germany, Austria, France, Belgium and Holland.

M. Herman Merkel, forester of the Bronx Park Zoological Garden, New York, is spending a few days looking over the shrub collections at the Arnold Arboretum under escort of Jackson Dawson.

Arthur Smith, formerly of Westbury, L. I., has a thoughtfully-prepared and very interesting paper on Plant Consciousness in the Arena for June. Mr. Smith sailed from Boston on the Saxonia, on July 9, for a short visit to his home in England.

Harry A. Bunyard was in Boston last Sunday for a few hours for the purpose of taking back with him to New York Mr. Boddington's employee, August Loeber, who, after his long illness, is at last able to leave the hospital and hopes to resume work within a few weeks.

Conspicuous in the group photograph of the Association of Oldest Inhabitants, taken at their meeting at Alton Farm, Md., on July 4, is the towering figure of America's most honored gardener, William R. Smith.

Mr. Smith who is one of the vice-presidents of this unique association presided at this meeting and also had charge of the planting of two Maine pine trees which was one of the interesting events of the occasion. Dr. Wm. M. Starr, who participated has entered his 100th year.

SAN FRANCISCO PERSONAL AND NEWS NOTES.

H. Bateman, who opened one of the handsomest flower stores early this year, has had to discontinue business for the time being.

Rossi Bros. have rented Bonneau's greenhouses. They intend growing roses, carnations and adiantum for their extensive shipping business.

P. Ferrari, manager of Ferrari Bros., has been making a trip to Southern California.

R. Groves, of the Park Floral Co., has just returned from a trip East, where he visited all the large cities.

The Pacific Coast Horticultural Society and the California State Floral Society have decided not to hold a fall flower show, owing to the unsettled conditions in San Francisco. But they intend holding a complimentary dahlia show sometime in September.

The gypsy moths have almost devastated the Lynn Woods (Mass.), this season and have appeared in the streets of Lynn in such numbers as to necessitate the sanding of the car tracks on account of the slipperiness caused by the crushed caterpillars.

Complaints are being made that the spraying of arsenate of lead on the trees and grass of Essex and Middlesex counties, Mass., for the destruction of the gypsy moth is causing the death of many valuable cattle by poisoning.

NEWS OF THE CLUBS AND SOCIETIES

AMERICAN PEONY SOCIETY.

The meeting of the American Peony Society at Ithaca, N. Y., June 27-28, was a most successful one and was attended by more members and those interested in the peony than ever before.

The first session of the meeting was held on Thursday afternoon, Dean Bailey being present to welcome the visitors to Cornell. He gave an interesting address, explaining the work of the College of Agriculture and its connection with the University. Owing to the unusual amount of business brought before the meeting it was found necessary to adjourn to Friday forenoon and again to Friday afternoon. Prof. Craig presented the checklist as the report of the nomenclature committee, and Prof. Coit, his able assistant, presented an extract from his thesis which proved to be a very interesting history of the peony and a statement of the methods pursued in the present work of bringing order out of the much confused condition in which the peony has been submerged.

On Thursday afternoon carriages were provided by Prof. Craig and a visit was made to the trial grounds which are situated about one and a quarter miles away from the University. The collection covers about two and one-half acres of ground and contains all the varieties obtainable in this country and Europe. The plants have made a fairly strong growth, but have not arrived at perfection yet, which will require at least another year. An additional collection is now proposed which will be made up of plants selected by the donors as their choice of the best varieties, with the idea of eventually selecting from these one hundred varieties which shall be the cream.

Two new standing committees were appointed; one on the diseases of the peony, and the other on new varieties. They are made up as follows: Committee on diseases, Prof. H. H. Whetzel, A. H. Fewkes, W. C. Barry, W. A. Peterson, A. O. Wild and C. S. Harrison; committee on new varieties, A. H. Fewkes, S. G. Harris and C. J. Hunn. Three new names were added to the committee on nomenclature, making that committee as it now stands, Prof. John Craig, Prof. A. P. Saunders, C. J. Maloy, John A. Charlton, J. F. Rosenfield, A. H. Fewkes, B. H. Farr, and Jos. Dauphin. It was voted to return to Ithaca in 1908 as the test collection will be in better condition, and probably will be a great attraction for several years to come.

A very pleasant incident was the visit paid by the members and their friends under the guidance of Prof. Craig, to the University Library, where some of the old volumes were examined, in which much of the early history of the peony was found by Prof. Coit. Old herbals of almost priceless value were brought out and shown to the visitors—books which were written before the time of Linnaeus, presenting the most superb typography and hand colored plates as bright and clear as though recently painted.

The Society feels deeply indebted to the management of the college, and particularly to Prof. John Craig and his assistants, for the great interest

taken in our work and the courtesy and kindness extended to all who attended the meeting.

A. H. FEWKES, Sec.

HUNTINGTON HORTICULTURAL AND AGRICULTURAL SOCIETY.

The annual June exhibition of the Huntington Horticultural and Agricultural Society was held in the Trade School Building on June 27. Roses and strawberries were the feature of the show, and in these classes the display exceeded former exhibits, the roses being notably of fine quality and in large variety. Peonies and other herbaceous flowers were also fine.

Principal awards were:

Strawberries—August Heckscher, Adolph Alms, gardener, 1st in classes, for size, finish, shipping and collection; Mrs. W. W. Sharpe, Peter Mee, gardener, 1st for flavor. Roses—12 pink, Walter Jennings, Richard Cartwright, gardener. 12 white, August Heckscher. 12 red, Wm. O'Hara. 12 any other, A. Heckscher. 6 sprays moss, white, Walter Jennings; pink, O. E. Schmidt. Thos. Caley, gardener. 6 sprays climbi. g. Wm. O'Hara. Collection, Walter Jennings. 1st; Wm. O'Hara, 2nd. Vase hardy flowers, August Heckscher. Collection hardy flowers, W. J. Matheson, James Kirby, gardener. Sweet Peas, W. J. Matheson. Carnations, A. Heckscher. Peonies, H. J. & A. H. Funnell. Early vegetables, W. Jennings, 1st; A. Heckscher, 2nd. The rooms were handsomely decorated with palms from A. Heckscher's conservatory.

The season here is fully ten days later than the average.

A. H. FUNNELL, Secretary.

NEW JERSEY FLORICULTURAL SOCIETY.

The floral display at the meeting of this society in Orange, on July 5, was unusually rich. There were many rare and beautiful orchids from Lager & Hurrell, Jos. A. Manda, O. A. Miller, and others; gloxinias from Peter Duff; hardy herbaceous flowers from Wm. Reid, Max Schneider and A. T. Caparn. The latter showed Romneya Coulteri, which had been raised in frames in light soil and had taken 18 months in which to reach the blooming stage.

In the business portion of the evening Henry Hornacker made a plea for the representation of the commercial man in the forthcoming fall show by a special class with suitable reward. The temper of the meeting was to grant this, and \$6 and \$9 for the best twenty-five cut blooms, open to the trade, was ordered to be placed upon the schedule.

NEW LONDON COUNTY HORTICULTURAL SOCIETY.

On July 2 the annual show of this society opened with a display fully equal to that of any previous year. Among the exhibits were roses and carnations by S. J. Reuter of Westerville; Boston ferns by A. K. Anderson, of the M. F. Plant estate; hydrangeas, gladioli and conifers by Otto Ernst; palms from the Geduldig estate; Hamburg grapes and cucumbers by J. P. Sorenson. Awards were made to Gustave Neumann, gardener for Mrs. Alfred Mitchell, for iris, herbaceous flowers, peonies and strawberries; and T. W. Head secured a round dozen of prizes on vegetables.

ST. LOUIS FLORIST CLUB.

The St. Louis Florist Club recently celebrated its 20th anniversary with a smoker, as related in last week's issue of HORTICULTURE. The following statistics of the organization have been kindly furnished by Secretary J. J. Beneke.

The St. Louis Florist Club was organized June 28, 1887, in the rooms of the Mercantile Club, there were present at the first meeting, the following florists: J. M. Jordan, S. Kehrman, L. Armstrong, J. S. Wilson, Wm. Ellison, Chas. Cannon, Chas. A. Juengel, E. W. Guy, R. Frow, H. Michel, Alex. Waldbart, Wm. Schray, and Julius Koenig, Sr. Of these five are dead, J. M. Jordan, Chas. Cannon, H. Michel, Wm. Schray and Julius Koenig, Sr.; four are still members of the Club; they are: J. S. Wilson, Chas. Juengel, E. W. Guy, and Messrs. Frow, Kehrman, Armstrong, Ellison and Waldbart are still among the living but not members at present.

The first officers were: J. M. Jordan, president; H. Michel, vice president; L. Armstrong, secretary; and A. Waldbart, treasurer. Messrs. Kehrman, Cannon and Juengel, trustees. The Club continued to meet in the rooms of the Mercantile Club until May 13, 1890, with a membership of 17, afterwards in the Odd Fellows' building.

In 1888 Charles Cannon was elected president, the secretary, vice-president, and treasurer holding over, the club now having increased its membership to 23.

In August, 1889, H. Michel was elected president; William Schray, vice-president; S. Kehrman, secretary; the treasurer holding over.

April 8th, 1890, H. Michel resigned as president, and J. M. Jordan was elected to fill out the vacancy.

August, 1890, Charles Cannon was again elected president, the other officers holding over.

August, 1891, Eugene H. Michel was elected president; Julius Koenig, Sr., vice-president; Emil Schray, secretary, and Alexander Waldbart, treasurer.

In 1892 John Young was elected president; R. F. Tesson, vice-president; the secretary and treasurer holding over.

The following year, 1893, Alex. Waldbart served as president; Julius Koenig, Sr., vice-president; F. C. Weber, treasurer, and Schray, secretary. The trustees were: Beneke, Jordan, Michel.

The following year Alex. Waldbart was re-elected as president; Frank J. Fillmore, vice-president; Emil Schray, secretary, and John Young, treasurer, and the membership had now increased to 35.

In 1895 Frank J. Fillmore was elected to fill the chair with C. A. Kuehn as vice-president, the other officers holding over.

The following year, 1896, John W. Kunz was elected president; Frank J. Fillmore, vice-president, secretary and treasurer the same as last year, the membership having now increased to 40.

The following year Dr. A. S. Halsted served as president, with F. W. Ude, Jr., vice-president, secretary and treasurer holding over.

In 1898 C. C. Sanders was elected president; Max. Herzog, vice-president; E. Schray, secretary, and J. J. Beneke, treasurer.

The following year, 1899, J. F. Ammann served as president; C. A. Kuehn, vice-president; secretary and treasurer the same.

E. W. Guy occupied the chair in 1900, with Charles Juengel as vice-president; E. Schray, secretary, and J. J. Beneke, treasurer.

In 1901 Fred H. Meinhardt was elected to presidency, with F. M. Ellis as vice-president, secretary and treasurer holding over, the club now having a membership of 50.

In August, 1902, J. W. Dunford was elected president; George B. Windler, vice-president, officers of secretary and treasurer holding over.

August, 1903, J. J. Beneke was elected president; William Winter, vice-president; E. Schray, secretary, and Otto G. Koenig, treasurer; this year the membership was increased to 100.

In August, 1904, Chas. A. Juengel was elected president, with W. J. Pilcher, vice-president; F. H. Meinhardt, treasurer, and E. Schray, secretary.

The following year, 1905, J. F. Ammann served his second term as president; John Steidel, vice-president, and E. Schray serv-

ing his fifteenth year as secretary, with F. H. Meinhardt, treasurer. New trustees were: Carl Beyer, Frank Weber and F. J. Fillmore; under the new by-laws, Mr. Beyer is to serve three years; Frank Weber, two, and Fillmore, one.

In August, 1906, the present officers were elected, H. C. Irish, president; John Connon, vice-president, and J. J. Beneke, secretary; A. G. Benzen, treasurer, with Wm. C. Smith as a three year trustee; the membership of the club at the present time is 101.

The club in its twenty years of existence has had seventeen presidents, seven treasurers and four secretaries, and has entertained two S. A. F. conventions, the first in 1893, and the other during World's Fair year, 1904.

J. M. Jordan, the club's first president, served the S. A. F. as its president in 1890, when the convention was held in Boston, Mass.

Prof. William Trelase served the S. A. F. as vice-president in 1893, and J. J. Beneke in 1904.

The club at the present time is in the most prosperous condition, with all of its members working in perfect harmony. Meetings have never been so well attended as at the present time. Its meetings are held on every second Thursday afternoon at 2 o'clock. The annual election will take place Aug. 11th, when a new set of officers will be elected to serve the ensuing year.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the regular monthly meeting of the New Bedford Horticultural Society last Monday evening, although the rose show had been abandoned owing to the lateness of the season and other circumstances, the rose formed the main feature in the exhibition of plants and flowers. James Garthly of Fairhaven had a collection of over 100 fine roses, composed mainly of Frau Karl Druschki, Baroness Rothschild, Paul Neyron, and Cleo. M. Garthly also showed a vase of Baby Rambler. Other exhibits were a fine vase of delphiniums by A. J. Jahn and a small vase of annual wall flowers by T. White. The latter was of interest, as the seed from which the flowers were grown was sown last March.

There is a possibility of the date of the fall exhibition of the New Bedford Horticultural Society being changed. Schedules have been printed and all arrangements made for an exhibition upon Sept. 12, 13, and 14.

Overtures having been made by the executive committee of the Old Home Week celebration regarding the holding of a horticultural exhibition during that week, a special meeting of the Horticultural Society was held on June 27, when a committee was appointed to obtain estimates of the cost of holding a free exhibition in the city hall. If the Old Home Week committee will grant a sufficient sum from its funds to cover expenses, including the offering of prizes as inducements for growers to exhibit their goods, the society will hold the exhibition.

The city hall was gutted by fire last November, but the Old Home Week committee are anxious to use the shell of it during the celebrations, and they realize that no organization would be able to cover the scars so neatly and put the old building into such happy service as the Horticultural Society could.

At its next meeting the society will probably decide whether it will change the date of the fall exhibition to the last week in August, or retain it as at present arranged and hold the exhibition during Old Home Week as an additional enterprise.

THOMAS WHITE.

FLORIST CLUB OF PHILADELPHIA.

The feature of the regular monthly meeting of this club held on the 2nd inst. was the animated discussion on the convention entertainment program. A further meeting of the executive committee will be held on the 11th inst., and a special meeting of the club will take place on the 16th inst. to hear their report and take final action. Thos. J. Oberlin read an interesting paper on flower culture in the waste spots of the upper crests of the Berks County hills. While no financial returns to speak of have been realized in this connection, so far the outlook is encouraging, and the improvement in the general aspect is gratifying and fully compensates for the trouble and expense.

At the meeting on August 6 there will be an exhibition of the new Amerpohlil fern for the W. P. Craig prizes: 1st, \$10.00 in gold; 2d, \$7.50; 3d, \$5.00. The contest is on invitation of Mr. Craig who distributed three plants each of the new fern among nine local growers last spring for trial. The winner of first prize will be allowed to retain his choice of his three plants. The judges will be Ed. Lonsdale, W. H. Taplin and Robt. Kift. There will be a special entertainment of songs, music and refreshments.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The meeting of this club July 2d was mainly to make arrangements for the annual July picnic, and for the S. A. F. convention at Philadelphia.

The picnic committee was appointed as follows: E. J. McCallum, W. H. Carney, G. W. Marshall, Edw. Blind, Julius Ludwig. E. C. Reineman was appointed a committee of one to arrange transportation for those members desiring to go in a body in special cars to Philadelphia. It was decided not to hold a club meeting in August, but at the usual time for notices of the August meeting, the secretary will write the members advising of no meeting and to communicate with Mr. Reineman in regard to transportation in a body to Philadelphia.

The Phipps Conservatories, Schenley Park, made a display of out door grown stock in variety, being especially strong in roses. The club adjourned to meet again at the July picnic, and at the S. A. F. convention, before the next regular meeting in September.

NEWPORT HORTICULTURAL SOCIETY.

The rose show on the afternoon of July 9 was a splendid success not only roses in all classes but decorative foliated plants, ferns, hardy herbaceous flowers, etc., being contributed in lavish profusion by the gardeners representing the many fine private estates. A certificate of merit was awarded Mrs. Wm. G. Weld for rose Trier. The names of Vanderbilt, Astor, Richardson, Goelet and Belmont figured largely in the list of prize winners.

FLORISTS' CLUB OF WASHINGTON.

The Florists' Club of Washington held its July meeting at Gude's Hall on Tuesday, July 2nd. There was very little business of importance transacted. A few financial matters were adjusted. It was decided that the annual picnic be an afternoon trip to the Great Falls of the Potomac, some time during the third week in July. The florists with their families will have a delightful trolley ride and wind up with dinner at the hotel. The subject of holding a chrysanthemum show here in the fall, which has been held in abeyance some time, was finally decided upon at the meeting. A committee on arrangements, consisting of Geo. Cooke, Geo. Field and F. H. Kramer, was appointed by Pres. Bisset. The show will be held on Tuesday, Wednesday and Thursday of the week of Nov. 15th.

PENNSYLVANIA HORTICULTURAL SOCIETY.

A two days' sweet pea and hardy perennial exhibition was held here this week and brought out some of the best exhibits we have seen in years. Pepper, Elkins, Bodine, Walker, Paul, Morrell, Lippincott, Ellis, and other gardens were represented and had a fairly good showing of prizes to take home and tack up in the packing shed. But more important was the public interest and appreciation of the show which will undoubtedly bear fruit in the future. The first prize in sweet peas was not well arranged. Another set of judges would have thrown it out and given it to a poorer lot of flowers better staged. Half the charm of the sweet pea is lost when its airy, graceful poise is lost sight of. Henry G. Michell, Henry A. Dreer, Samuel T. Bodine, Harrison & Schrieber and C. S. Ridgway donated the prizes. The hardy perennials were excellent and very interesting.

CLUB AND SOCIETY NOTES.

The summer meeting of the Minnesota Horticultural Society was held at Armory Hall, State Experiment Station, St. Anthony Park on Tuesday, July 2.

The American Pomological Society will hold its 31st annual meeting at the Jamestown Exposition on September 24, 25, 26. A large attendance from remote places is expected.

The Sweet Pea Exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, on Saturday and Sunday, July 20 and 21. This is one of the most interesting of the mid-summer shows and will well repay a visit.

The annual picnic of the Chicago Florists' Club will take place on July 21 at Morton Grove. Those who know theingleaders in fun making in the Chicago Club—and who doesn't—need no argument to convince them that there will be a "high old time" on this occasion.

THE REDEMPTION OF THE HOGBACKS.

(Thomas J. Oberlin, Sinking Spring, Pa., before the Florists' Club of Philadelphia, July 2nd, 1907.)

What is a "Hogback"?

Here and there throughout the county of Berks and the adjacent country can be seen bare, uncovered spots, usually at some elevation above the surrounding wooded or verdure-covered surface; in many instances they are inaccessible to the ordinary methods of tillage—where a plow would find it exceedingly difficult to draw a furrow through the hard, sterile or rocky soil, even if it were possible to get there with that implement. These arid, desert-like spots hump themselves up in conspicuous fashion, visible frequently at long distances and mar by their unsightly barrenness what would otherwise form a portion of a beautiful, verdure-covered landscape.

In the South they call such patches hog-backs, and we have borrowed the term and applied it to similar situations in Berks County. Just why our southern friends have called them hog-backs has not been so clearly explained to the writer, unless it is that through the exercise of a lively imagination they observed some similarity in their general contour to the dorsal surface of a Georgia razor-back when his swinishness arises from his slumbers, yawns and elevates his spinal column to a maximum curvature.

The hogbacks of Berks County admit of classification. In the first class we would place those existing in the red shale and yellow gravel districts; in the second, those found in the limestone formation. The former frequently are pictures of desolation, being entirely devoid of vegetation on their crests except perhaps some lichens and mosses, every particle of arable soil having been washed away by the winds and rains of past centuries. The latter are usually more accessible and respond more readily to the hand of the gardener; the sharp lichen-clothed rocks protrude at the apex and also at the sides through the shallow, loose soil, bordered perhaps by thin grass and some depauperate shrubbery, struggles to live wedged in tightly between the rocks.

The Task of Redemption.

The task of redeeming these seemingly useless spots from their native savagery, in which they have lain for centuries since the first pioneers cleared the surrounding land in the fertile valleys and dells and began its cultivation, seems to be a most forbidding and hopeless one. It seems as if it would be necessary to invoke a good fairy to pass her magic wand over these barren places before anything of beauty or value could be brought forth; and yet, it has been the experience of the writer to observe at least a few such spots that have been made productive without rubbing a lamp or resorting to any other Aladdin-like processes.

It also is very strange that nature herself has covered just such spots with suitable flowering plants and left a great many uncovered to be completed by man, but such is really the case. The flowering plants, however, that nature has placed there have no particular value as a cut flower; their mission, it seems, has been to simply

suggest to man what should be planted there either for profit or beauty, as will be shown later on.

The next thought will be, How is this work of redemption to begin? We can say in a general way that if we dig or blast pockets into these barren or rocky places, wide and deep enough to hold a sufficient quantity of good rich soil, and the surface is not too precipitous to be washed away by heavy rains, we can succeed in covering them with shrubbery or low evergreens. This has been successfully done. But when the sides of your hog-back descend very abruptly so that a foothold can scarcely be maintained and the foregoing method fails us, what can be done? And this brings us to the consideration of two specific hog-backs which have been under our observation for a number of years.

A Barren Spot.

A gentleman has a beautiful estate south of Reading, Pa., its surface is very undulating with some steep hills. Near the top of one of these is the mansion, commanding an extensive view of the surrounding country, the Schuylkill River and the city of Reading visible in the distance, the Blue mountains in successive ridges fading away on the hazy horizon. Overhead the banks of clouds speeding across the valley cast their shadows on the surface of the earth as if racing along. It is a charming picture and, to mar it at all, in the center of this beautiful estate there arises a barren red and yellow hog-back in all its dreary nakedness which has defied all efforts to be clothed.

Here, Nature appears to have somewhat reversed the order of things. This hog-back is in the midst of cultivated fields and a beautiful spring which supplies the reservoir on the premises is near the top of a hill with an old Indian trail leading to it when you would naturally expect to find the spring near the bottom of the hill.

This barren spot looked particularly repulsive when you walked along the Indian trail in the direction of the spring and as this was a favorite walk of the owner it was decreed that the hog-back or barren must disappear and if possible have a green covering during the entire year.

Pine and cedar trees had been tried without success. Pockets were dug and evergreen honeysuckles planted, but at that elevation so high and so dry the struggle for existence became each succeeding year more precarious.

Plants Suitable for Desert Conditions.

Finally the owner sent for the writer to help solve the problem. I went, I saw but I did not conquer immediately. I approached it with great caution and some trepidation as you would something uncanny or hoodooed, looked it over rather sadly, covered as it was here and there with the melancholy debris of former failures. The remains of the nurseryman's stock were still there stiff and stark in death like dead men's skulls and the bleaching skeletons of a desert caravan strewn about as a warning to newcomers. Of course, with so much mortality covering the hog-back you could hardly expect me to promise anything except to wander homeward and think it over profoundly and seriously. I tried to think of every flowering plant that grows

on the barren summits of the South Mountain. At last, I thought of *Tephrosia virginiana*, Hoary Pea or Catgut and what a refreshing symposium of color and beauty it was on the dry and barren crests of the mountain! It has a root so long and tough and penetrating it takes all your strength to uproot it. Ah! I thought, if we could stretch some catgut on this man's hog-back, then, there would be some music when the fiddler comes along.

Commercially, you can procure catgut in all the letters of the chromatic scale when the violinist's article is needed but when it comes to the other catgut, *Tephrosia virginiana*, there was none to be found in the market. There was nothing that we could do except to look for an allied plant now under cultivation and supplied by growers of hardy perennials, a plant of another genera and in the same family, the *Leguminosae* or Pulse family. We concluded that *Lathyrus latifolius*, Everlasting Pea, of a pink-purple color, which also has a long and tough root would succeed on the barren. As indicated before it was the tephrosia that suggested the lathyrus but we had never seen the latter grow under such conditions and its trial would be in a great measure experimental. If it succeeded, it would at any rate cover the hog-back during the summer months. We hastened to the owner of the property with our explanation. "If it succeeds, we will also have flowers for cutting," he said. "That is very good; we will try it."

We went right at it in October and planted several hundred. We dug trenches transversely across the back taking great care to place the excavated earth and stones at such places that they would not run away from us, loosened up the bottom of the trench and mixed some ammoniated bone phosphate thoroughly with the soil and laid in the roots at an angle covering them with what loose soil we had and placed stones and rocks on top to keep the soil from rolling. We might call this a stone mulch. We had to wait until the following June for results and the way those perennial peas grew and bloomed on that hog-back was a surprise to everybody. There was such a plethora of flowers that all the blooms could not be used at the house for decorating. This was six years ago and the vines have since grown ranker and denser and when the season of bloom is over a thick mat of dark green foliage covers the barren. This is the story of a hog-back of the first class.

Experimenting With a Limestone Tract.

At present, we are actively engaged in reclaiming one of the second class or in a limestone formation. In recent years there has been no income from this patch, except that the scant growth of grass was grazed by cattle. In this case the strata of limestone have no dip, but project vertically from the surface of the soil. The surface soil, if there is any, is of various degrees of thickness, and the subsoil is a very stiff yellow clay. Between the projecting rocks, there often is sufficient space to drive a hole with a post-bar in which a root can be inserted and the earth gently tamped with a wooden rammer. In these holes and

on the highest parts of the hog-back we have planted three hundred of the new perennial pea, *Lathyrus latifolius*, "Mary Lovett" of a beautiful carmine and shell-pink color, a very desirable florists' flower. In places where the soil is deeper and the rocks do not obstruct, pockets have been dug, the yellow clay removed and filled with sand and scrapings from the street gutters and about a quart of Quaker City poudrette thoroughly mixed with the sand and scrapings. One hundred standard *Hydrangea paniculata grandiflora* and two hundred of the new *Hydrangea arborescens grandiflora alba* have been planted in these larger excavations, which have then been filled with good surface soil, a black loam, brought from another part of the premises and mulched with stable manure kept several inches away from the stems of the shrubs.

To Apply the "Dollar Test."

As it would be impracticable to give this hog-back horse cultivation on account of its peculiar contour, the inaccessibility to many of its parts and its rocky character, we propose to let the Mary Lovetts have their own sweet will and grow riotously among the grass and weeds where the latter cannot be held in check with scythe and sickle. Where regular distances could be maintained, the hydrangeas have been set about six feet apart each way so that the scythe can have a rather free swing to keep down the grass and weeds which will be permitted to remain as a mulch. Many of the projecting rocks have been knocked off with a heavy sledge, so as to bring them on a level with the general surface and not interfere with the mowing. Immediately around the plants we will cultivate by hand with the hoe. As yet we can report no results, but we look forward to as happy a termination of our labors as in the previous case already related. We expect our labors to have their reward, and we will send the products of this hog-back to the Philadelphia markets—not a great quantity this summer, but more in the seasons to come.

My readers must not classify the work done in this instance with the so-called "soft snaps"; there is truthfully nothing very soft-snappy about it. It is a job full of hardwork. To bestride a hog-back in the hot sunshine and ride it successfully to an artistic finish requires courage and perseverance; it is not a ride in an Indian howdah with silken hangings and a shading canopy.

Nature unselfishly gives us many suggestions that are helpful, written on her hills and slopes, if we yield to her dictations and take them and apply them in our work. In the way I have related, many of the hog-backs now lying idle as waste places could be redeemed from their apparent uselessness and be made objects of beauty in the landscape and sources of profit as well.

The firm of Learnard & Shirley, Danvers, Mass., is dissolved. The business will be continued by Shirley & Fowle and the plant will be moved to Ash and Hampshire streets.

You will find something worth reading on every page of HORTICULTURE.

ROYAL HORTICULTURAL SOCIETY.

On Tuesday, June 11, though there was no special feature, the hall was amply filled with plants and flowers, from the humble Alpine saxifrage to the glorious cattleyas and *Odontoglossum crispum*, while in the annex were tables bearing a fine selection of July melons, some placed before the Fruit Committee for certificates by Swanley College, but by far the best and most varied display from Lady Northcliffe, which not only embraced the finest of well-known kinds as Superlative and Sutton's Al, but had a beautifully netted fruit of the Blenheim Orange strain named the Peer. There were also two trays of useful sized cucumbers between Rochford's Market and Bounteous, named Market Rival, and very aptly, for it was in advance of both these standard sorts. The rest of the space was occupied by hardy perennials, iris and lilies sent by the T. S. Ware Co. A mass of the brilliant *Chrysogonum virginicum* was prettily set off by *Ramondea Pyreuea* and its rarer albino variety found only in one spot on the Spanish Alps of the Pyrenees; rising above these were plants of *Campanula spicata* and *Erigeron Philadelphus*.

Low, Sander, Stanley & Co. and McBean, the Sussex champion grower, staged fine *O. crispum* and well-flowered pieces of *Epimedium macranthum* (Marshall's var) and of *Cypripedium bellatulum*. Hobbies staged good plants of leading polyantha roses, Clematis and Rose Soleil d'Or, said to be a yellow H. P., but unmistakably a Persian briar. Veitch & Son had large plants of the Himalayan honeysuckle, *Lonicera Maaki* full of flowers, but it was too far back to know if it had the looked-for fragrance in the genus. Also, a beautiful but tender looking conifer *Libocedrus macrolepis*, like an arboreal selaginella, and the minute but very pretty *Hypericum Chinense*.

Mr. Reuthe, always rich in rare and novel things, put up well-flowered specimens of the deep orange-flowered *Rhododendron cinnabarinum*, *Campanula abiente* and some *Eremurus Himalayicus*, with exceptionally long and massive spikes of flower, and neat little pieces of the pretty *Hypericum polyphyllum*, which he says is always in flower. M. Pritchard had rich Oriental poppies, *Hemerocallis aureolus*, and some good varieties of Iris—particularly yellow forms. These are all gains in their class. Charles Turner put up for the floral committee some large plants of a very promising white carnation, named Lady White; the flowers are large and flat, and do not split but, alas, it is scentless.

H. B. May was awarded a gilt Flora medal for his superb bank of ferns, which contained the best of his grand *Nephrolepis*—such as *exaltatum superbum*, *todeaoides*, *plumosa* *Brusei* and *elegantissima*, all of which have come to stay. There was a flat, filled with flowering plants of a new hybrid *Hippeastrum* Mrs. Carl Jay; parentage doubtful, but evidently a vittata, from the broad white midrib stripe on leaf.

The R. H. S. held their first show of colonial fruit at Vincent Square on the 13th and 14th inst. These exhibitions have a certain interest to English fruit producers, and doubtless more to

those engaged in the work in New England, if I am right in thus collectively naming the States that group around and north of New York, up to the lakes and St. Lawrence river, and where, I opine, is grown the great bulk of the fine apples, and other hard fruit that reaches us in such fine condition at a time when with us it is yet scarce. Since the war, too, it must be a source of congratulation to all that the arts of peace have been to the front, and that the Cape is sending home such fine produce from their orchards, ranging from the lordly pine apple to the humble tomato, that it comes within the reach of the humbler working classes, finding a ready sale in the open market, and from the ubiquitous barrow of the coster.

We are used to seeing the fine pine-apples that are shipped from Madeira, but these sent over the Atlantic packed singly with great care are more to look at than to eat, while the small but delicious "Queens" from Natal have all the ripeness, color and flavor of those we used to produce in specially constructed pine pits, at such an enormous expense, that the culture was only attempted, where money was no object, a state of things that has ceased to be since agricultural depression has crippled the resources of land owners. The rest of the exhibits were almost a replica of the show, which took place last October—apples, pears, oranges, grapes, bananas, with a few sundries of tropical fruits from our Colonies on or near the equator.

Chatting with a well-known market farmer I gathered that the fruit prospects in the suburbs were not very promising. Victoria plums, over the average; Damsons, at present doubtful, having the stoning period yet to get over, when especially on deep soils so many of them run off.

THOMAS BUNYARD.

ALBANY FLORISTS' CLUB.

The Albany Florists' Club met last night in the office of Patrick Hyde. Two new members were initiated, and the reports received indicated that the club is in a prosperous condition. After business was over the members became the guests of Mr. Hyde. They were provided with good things and a social time was enjoyed. There were brief addresses by various members and some songs and recitations. Among those who attended were:

Edward Meaney, Fred Henkes, Fred Goldring, H. C. Whittle, Wm. C. Gloeckner, Henry Bashtel, John Murnane, Edward Tracey, William Kurth, Harry Riggs, John Moran, John McAllister, Fred A. Danker, Patrick Hyde, John A. Howe, Jr., John Haggerty, Henry Long, Harvey Woodland, Fred W. Gloeckner, Arthur S. King, Thomas Snare, Thomas Tracey, H. E. Hurlbut and W. H. Brockway.

EXHIBITION AT WENHAM, MASS.

The ladies will give a floral carnival August 14 and 15, at Wenham, Mass., for the purpose of stimulating an interest in floriculture in Wenham and neighboring towns. The committee in charge feel that from the interest taken by the residents, the affair will be both a financial and educational success. Prizes will be given in all classes for annuals, perennials and vegetables, and there will be many exhibits of specialties.

THE TWENTIETH CENTURY CATALOGUE.

J. Horace McFarland before the American Seed Trade Association.

(Continued from page 11).

Catalogue Covers.

With trepidation I take up the subject of seed catalogue covers and the sometimes accompanying "plates." Much experience has made me shy in relation to having any definite opinions as to the selling power of any particular form of cover. This same experience has convinced me that there is a tendency for better covers; that is, those truer to life and free from the garish characteristics of the German school of lithography. Yet candor compels me to also state that I have seen an apparently beautiful and accurate cover fall down utterly in pulling business, and an extremely plain and simple cover produce satisfactory results.

Covers fall into two general divisions, the first including that type of cover which specifically offers something to sell in addition to announcing the business of the seedsman. The second class includes the plain and decorative covers not making any specific selling offer, but intended to serve merely as the protection implied in the name "cover," or, if sufficiently dignified or decorated, to stop the catalogue on the way to the yawning waste-basket which is the seedsman's Hades.

The "selling" covers have been usually colored, and sometimes gaudily colored; yet a number of extremely satisfactory covers are in monotone. Speaking cautiously and with an attempt to consider the whole country and not the east merely, I feel that a well-considered colored cover made by some one of the processes which gives truthfulness in form as well as in color, is likely to be satisfactory and profitable. That it is hard to devise and secure such covers no man before me needs to be told. That dependence upon the imagination of the lithographer, who secures his stimulating information from the encyclopedia, is a poor way to get a good cover is known to some of you. A study of the field and proper photographs of things that seem to be interesting and feasible, with color notes made at the critical time, will serve as the best possible preparation for success in this line.

Mr. McFarland displayed later in monotone by the lantern some colored covers and some decorative and dignified covers showing that there is a value to the latter form in escaping the waste-basket danger and also in being permitted to mix with the better magazines on the reading tables of well-to-do people.

I think that after all the question of covers simmers down closely to the class of trade sought. If the seed house is of age and dignity, the covers of its catalogues should show that dignity and can bear to advantage some restraint. If the trade sought is that of the farmer, color may and frequently does prove distinctly advantageous. That one of the strongest, oldest and largest American seed houses has within the last two seasons found it pay to drop entirely the glaring forms of lithography for an extremely refined decorative cover on its expensive book, is a significant point which may well be sharply considered.

As to the value of inserts, I can

only say that they bear a distinct relation to the cover, and should be in the same key of treatment. Illustrations sell the goods, and if the insert is properly handled and placed it ought to be efficient, and frequently is.

The Preparation of Copy.

Of importance hardly inferior to the illustrations, which will be treated later, are the descriptions in the catalogue, of what the printer calls the "copy." It would not be difficult for me to show some extremely horrible examples of how "copy" comes to the unfortunate printer, nor to give instances of the way in which the man whose next year's trade is at stake depends on luck and imagination. Most of the leaders, however, have a clear idea as to the preparation of copy. I am glad to see a growing tendency toward reduction of the size of descriptions and the elimination of flamboyant language. The ideal description covers in the briefest possible form every point that needs to be known about any particular vegetable or flower, fairly commending its merits and not omitting to frankly state its demerits. This ideal description has not yet appeared in any catalogue, although there are several approaches to it in current practice.

To reduce the constantly expanding general collections to the fewest number of varieties by continually dropping duplications, and to get these items down to a terse and succinct descriptive form, tends not only toward general economy but toward providing more room for the description of specialties. It seems to me that every seedsman with individuality prefers to stand on a comparatively select list, the stocks to supply which he especially safeguards and the merits of which he fully believes in.

I have before adverted to novelties. They form a fascinating country, of great possibilities and still greater impossibilities, and travel in this mysterious land of horticultural novelties is beset with many trials. Current American practice distinguishes the novelties by separation from the body of the catalogue, by colored paper, by various decorative adornments, by expanded illustrations and yet more expanded descriptions. I can hardly venture to have any concrete ideas as to the value of these differing methods, but I can safely say that the dollar test before alluded to is the best test after one has applied the touch-stone of truth to novelty statements.

The Illustrations.

Of tremendous importance in the catalogue are the illustrations. Properly handled they sell the articles listed. I have a dream of the twentieth century catalogue which will give a picture, even if only of thumb-nail size, of every article offered. That catalogue will have to be sharply condensed in number of items, however, to make such a scheme practicable. Indeed, it may be utterly impracticable.

As I have previously said, the illustrations of a few years ago proceeded largely from only two sources, both of which are now practically abandoned. Photographs are largely used and will be more largely used as the means for making them are adopted by the seedsman. I have expressed myself as to the advisability of the pro-

duction of the photographs by the seedsman himself, or by an organization under his direct control. I know how difficult it will be, for I have painful experience of the expense of getting good "selling" horticultural photographs—an experience extending over the production of a collection now exceeding ten thousand items. Those of you who do the Mount Pleasant Press the credit to call at its premises and see these photographs are never shown the ash-heap or the dun-pile. You see our successes, but not our failures. You are not told of the futile trips; of the rainy days; of the wormy cabbage; of the wilted annuals. You do not learn how our well-laid schemes for getting specimens sufficiently artistic to please us and sufficiently flamboyant to please you fall down. I would have you try the work, because it will be better for you and, frankly, better for me.

Method of Engraving.

An hour might well be spent in discussing the mechanics of photography as applied to seedsman's uses and the methods of making illustrations. We do not have that hour at our disposal, and I therefore pass quickly to the methods of engraving used, now confined practically to but two. Of these, the line cut requires drawing and thus interposes the hand of man. The only reason for using line engravings is to permit printing on cheaper paper, and the tendency is away from them at the present time.

The twentieth century catalogue is illustrated photographically, and the engravings are made by the halftone process, which I wish I might have opportunity to explain to you in detail at some future time. In having the halftones made, however, I would simply point out one pitfall, and that is the square-inch rate offered by the cheapest man, who makes you believe you are getting your engravings cheaper while he gets more money out of you and you get less efficiency out of him. The square-inch man always gets square inches. He makes square-finish cuts and he gives you plenty of margins and white space included within the dainty little lines surrounding his productions. The most of the difficulty experienced by the printer in using halftones is in the printing of these non-essential black spaces or white spaces.

The engraver who will treat your photographic copy according to your needs and constantly aim to reduce the size of your engravings without impairing effectiveness is certainly the cheapest. The use of outlining and of the various other methods for securing effectiveness from half-tones is extremely important. The handling of your photographs so as to avoid either pure white or solid black backgrounds, and making them so that they will fit the designed use of the page, is another point worth considering in the twentieth century catalogue, if we had one whole year of that century in which to bring the details out. I have hinted, however, as to the methods of efficiency, and in some of the concrete criticisms to be made later by aid of the lantern I can go, perhaps, a little further.

Styles and Sizes of Type.

In planning a Twentieth Century Catalogue careful attention must be

given to the type, paper and printing to be used if full selling attractiveness is to result.

Postage considerations are responsible in many ways for making the modern seed catalogue the oculist's friend. No man would willingly read the small type which it is deemed necessary to use if he could get out of it, and I fear that many who receive the catalogues printed in the small type can and do get out of it. If the beneficent government of the United States through its Post Office Department did not place a cash penalty upon plain printing, I feel sure that there would be few seed catalogues printed in anything smaller than 8-point or brevier type, which carries 28 words to the square inch under normal conditions. As it is, far too many of these catalogues are printed in 6-point, known as nonpareil type, which carries 53 words to the square inch, and thus occupies practically but half the space of the more desirable and easily read 8-point type.

There is an intermediate type known as minion, or 7-point, which includes 42 words to the square inch. This in good practice is taken as the happy medium between the small nonpareil and the space-wasting brevier. It takes, independent of the space required by illustrations, 23 per cent more space than that taken by the solid nonpareil, while it is a 50 per cent gain of space on the large 8-point. Unfortunately, many printers do not have this type, and not having studied the intimate relations of type to paper and eye and selling, they are prone to recommend the smaller type because it is more profitable to set. When a more legible condition is required of them, it is given by the insertion of thin strips of metal between the lines, technically known as "leads," which, while opening out the page, do not make legible the excessively small letters. While between leaded nonpareil and solid minion there is practically no difference in the number of words to the square inch, there is a vast difference in favor of the solid minion, or 7-point, in respect to legibility.

Headings.

Careful judgment in regard to headings tends to make a catalogue attractive and satisfactory, both for the seedsman and the customer. Though some of the best catalogues use a great variety of type, it is not to be considered good practice any more than it would be thought good practice for a man to wear as many different characters of buttons on his clothes as he had buttonholes. Uniformity in character of type, emphasis being given by difference in size, leads to the happiest result.

I cannot but favor, where it may be appropriately used, an ornamental heading to a page, which will serve to give it color and character independent of the illustrations, and to distinctly tie it to the individuality of the seedsman. In connection with such a heading and with the various headings and black types used in seed catalogue work, the study of the white spaces is, as I have previously mentioned, of the utmost importance. It is a problem in which the thoughtful printer should work hand in hand with the capable seedsman.

Paper.

The subject of paper for catalogues is one upon which there might be much discussion. The free use of half-tones implies a paper which will give reasonably good results from these modern engravings. Such results can only be secured on a smooth and receptive surface, and the need for such a surface can be understood when you are advised that the depth of relief in the ordinary half-tone engraving is barely one-thousandth of an inch. The peculiar paper known as coated paper, from the fact that its printing surface is given by a coating of finely pulverized white clay brushed on in the process of manufacture, provides the best results. It also increases weight out of proportion to its thickness, and costs more than other papers. Some seed catalogues have been printed altogether on coated paper, and more would be if the government treated us fairly in the matter of postage.

Considering the question impartially, I cannot but feel that the offering of articles of low price, such as ordinary seed quantities, does not justify the increase in cost brought about in the complete use of coated paper in many cases. A good quality of super calendered paper, by which is meant paper which, coming from the machine, is then passed through a set of heated rolls which compress and polish it, is the standard for catalogue work. The postage handicap has made it thinner and thinner, until now, in the form of the mis-called "Bible" paper, it is so thin as to be inefficient, unpleasant and unsatisfactory. The regular super calendered paper is satisfactory where the engravings have been properly prepared and where the printer understands the use of the half-tone engravings in connection with a suitable ink. It should not be lighter in any case than a basis of forty pounds to the ream on a size of 25x38 inches. Even this weight has now been penalized by the paper manufacturers, who have added a higher price because of its thinness and the loss they are compelled to undergo in its manufacture.

The Ink.

Once in a while a seed catalogue comes before me which introduces itself afar by its odor. I am at once made aware that the printer has been listening to the wiles of the competing ink maker, who furnishes for 18 cents a pound an ink which is "just as good" as the 40 cent ink upon which the printer's ideas may have been fixed. Just as no one likes to meet a gentleman who announces his presence by strong scents of any kind, no one cares to meet a catalogue which smells to Heaven, or to the other place! Cheap ink is as poor economy as Bible paper, and both together make a combination which is a long way off from catalogue Heaven!

All too inadequately, because of the limitations of time, I have discussed the general construction of the Twentieth Century Seed Catalogue. I expect to see it more beautiful and more efficient, and possibly more expensive.

Those of us who are familiar with the best catalogue issues of foreign lands must admit that there are yet heights to attain in horticultural salesmanship in America. That we will eventually excel in this as in most of

DAISY DOUBLE

	Tr. pkt.	Oz.
Giant White	40c	\$3.00
" Mixed	40	2.50
" Longyellow	30	2.50
" Snowball	30	2.50
" Mixed	30	2.00

MYOSOTIS

Alpestris Victoria very large blue	25	.75
Eliza Fanrobert best for pots	20	.60
Oblongata Perfecta long stemmed	25	1.25
Palustris	30	1.50
Palustris Semper florens	25	.25

PANSY

MICHELL'S GIANT EXHIBITION

This is the finest strain of pansies in existence
50c. per trade pkt.; 1-8 oz., \$1.00;
\$5.00 per oz.

NEW STOCK OF PRIMULA and CINERARIA SEED NOW READY

CYCAS REVOLUTA

Strong, healthy trunks,
25 lbs. \$2.25 100 lbs. \$8.50
Send for our wholesale price list of
Bulbs for Florists

HENRY F. MICHELL CO.
1018 Market Street
PHILADELPHIA - PA.

the undertakings of progressive America, I am sure.

Consider the Poor Printer.

May I say in conclusion just a few words about and for the poor printer, with whom you must deal in regard to catalogue work? With an overturn exceeding half a billion dollars annually in the work he produces, the poor printer has successfully avoided the millionaire class up to date. Indeed, the very best of him collected would have to be bunched in dozens and half dozens to be valued at any such an exalted figure as that which makes the million unit of acquisition in many less important pursuits. Holding the key to all commercial activity, underllying the learning of the world, furnishing an absolute necessity for its progress, he is yet unrewarded by any adequate of commercial profit for his work. Perhaps he is laying up treasures where moth do not corrupt nor rust destroy! This is a very pleasant thing to contemplate, but few of the seedsmen before me would care to do business upon such a basis; for it is not possible to draw checks on the balance in the Sky Bank!

Consider his poor situation, in dealing with the printer when you ask of him new equipment at competitive prices. He is always willing to buy a new press out of last year's profits, if there were any, or out of last year's credit, if he has any, in order to do your catalogue better. He is willing to think for you; to give you without architect's prices, or engineer's fee, or doctor's honorarium, the results of a life of devotion to the art preservative of all arts. Do not ask him too much. Do not press him too hard. Do not squeeze him too tight in the matter of time, delivery, alterations and the other agitations which sometimes make catalogue production a misery. Help the poor printer, and he will help the rich seedsman!

Seed Trade

According to reports brought by the California delegates to the recent Seedmen's Convention, onion seed is not in the desperate way they wished us to believe early in the season. Having spread reports that fully one-third of the crop was destroyed, and that the remainder would produce not over 30 to 50 per cent. of an average, and refusing to quote a pound to any one, they now announce seed for sale to all comers at very moderate prices, and say the damage to the crop reported early in the season was much exaggerated.

There are certain dealers who are always thrown into a panic on a whisper of a short crop, and immediately predict famine prices. These are just the men the artful grower is after. Having scared them into buttoning up tightly or quoting prohibitive prices, he quietly steals around, and naming prices from fifteen to twenty-five per cent. under the dealers, carries off the orders and leaves the dealers with their stock on their hands. It is a shrewd maneuver, albeit as old as man, and those who are its victims today have been many times before, and will continue to be so long as they live. However, after all has been said, the fact remains that there is a very heavy shortage in onion seed, and with the prospective onion, and onion set crops decidedly short, seed should, and probably will, rule higher in price than at any time in twenty-five years.

Peas are looking well, and that is all that can be said with confidence at this time; in course of two or three weeks estimates will be of more value. One thing is sure, however, and that is, the crop is at least two weeks late, which naturally increases the danger from drought and excessive heat, and as the stand in many places is light, owing to a considerable percentage of the seed rotting in the ground, heat and drought will be more destructive than where the stand is heavier.

There has been some good corn weather, but corn is under a very severe handicap, and not much encouragement can be offered, at least so far as sugar corn is concerned.

While fine seeds are far from being a hopeless case they are not up in condition to what they usually are at this time of year. Potatoes are late and

RUSTIC WORK



Settees -	\$7.00
Window }	
Boxes }	1.25
Arm Chairs	3 25
Tubs -	1.25
Vases with }	2.75
Stands }	

W. Elliott & Sons
201 Fulton St., N. Y.

BAMBOO CANES TOUGH AND STRONG

6ft long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO. - 50 Barclay St., New York

EXHIBITION OF SWEET PEAS

Florist Day, Saturday, July 27th

WE cordially invite every florist near Boston to visit **Rawson's Dahlia Farm**, situated on Green St., Marblehead, Mass., on July 27th, where we shall have on exhibition over one hundred varieties of Sweet Peas; This collection contains some of the latest Novelties of European origin and will enable florists to make a judicious selection for another year.

REMEMBER July 27th at Marblehead, Mass.

W. W. RAWSON & CO., 5 Union St., Boston, Mass.

ZIRNGIEBEL'S GIANT PANSIES

Fresh Crop

Now Ready

Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNGIEBEL. None genuine unless sold by me.

AUGUSTUS ZIRNGIEBEL, Needham, Mass.

GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.

GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

generally not looking any too robust. Predictions are freely made that the crop will be much below average as to quality and quantity. Any material improvement or deterioration from the present level will be noted in HORTICULTURE from time to time.

Several new firms were added to the membership of the American Seed Trade Association at its recent meeting in New York city, and not one of them but should prove a worthy and desirable addition to its members.

It is reported that C. B. Coe who represented D. W. Ferry & Co. on the road for many years, and who has been out of harness since about 1898 has again donned the livery of the old firm, and will soon start on the trail. His familiar war whoop will again make the welkin ring and the timid ones will make for cover. Success to him.

The pleasant announcement is made that the plan to liquidate the business of Rennie & Thompson of Providence, R. I. has been successful and that all accounts due creditors of the firm have been paid in full. The firm will be dissolved, Mr. Thompson retiring, and it is possible that Mr. Rennie may continue the business.

It is the general verdict of the trade that they have had an exceptionally good year, despite the heavy falling off in April and May. June has been as busy for the retail seedsman as May

usually is. As a result seed stocks are at a very low level, and any material shortage in crop deliveries this fall and winter will mean pretty high prices. Cover your shorts early.

Mr. James Farquhar of R. & J. Farquhar & Co., Boston, has gone to Porto Rico to inspect the plantations which the firm has there.

Christmas Flowering Sweet Pea Seed

DIRECT FROM ORIGINATOR.

Christmas Pink, Florence Denzer, white 1-4 lb. 75c; 1 lb. \$2.00.

Mrs. E. Wild, new carmine red, 2 oz. 75c; 1-4 lb. \$1.50.

These popular Florists' Sweet Peas have been grown by

OVER 3000 FLORIST -

all over the world to the best satisfaction of the most critical growers, and

HAVE NO EQUAL.

Also 10 New Varieties offered for the first time, Salmon, Pink, Blue Purple, Yellow and Variegated in separate colors.

Ask for Descriptive Price List. These new varieties will be ready in September. Sweet pea Directions with every order.

MIGNONETTE SEED

Own select greenhouse grown; for many years the leader in New York, 1-8 lb. \$1.00; 1 oz., \$5.00.

ANT. C. ZVOLANEK

BOUND BROOK, - NEW JERSEY

NEW CROP



JOHNSON'S PRIZE WINNER PANSIES

FROM THE WORLD'S FAMOUS GROWERS

"Johnson's Kingly Prize Winner Pansies are the product of the World's Leading Pansy Specialists, and absolutely unsurpassed in quality by any strain extant. We offer seed as follows: 1000 seeds 30c.; 2000 seeds 50c.; 5000 seeds \$1.00; 1-4 oz. \$1.25; per oz. \$5.00."

GIANT DOUBLE DAISY

Seed carefully selected by a specialist.

	Trade Pkt. (2000 seed)	Per oz.
Snowball, pure white	.25	\$2.50
Longfellow, rose	.25	2.50
Giant, mixed	.25	2.00
Giant, white	.25	2.50
Giant, red	.25	2.50

Write for our complete Pansy List

MYOSOTIS (Forget-Me-Not)

	Trade Pkt.	Per oz.
Alpestris Victoria, blue	.20	\$.75
Alpestris Robusta Grandiflora, large flowering blue, for pot culture	.20	.50
Palustris (true Forget-Me-Not)	.25	1.50
Semper Florens, everblooming	.25	1.50

CANDYTUFT

Empress, pure white, large trusses	.10	.20
------------------------------------	-----	-----

JOHNSON SEED COMPANY 217 MARKET STREET, PHILADELPHIA, PA.

ALL GIANTS are used in mixing our **PANSY SEED**

"BODDINGTON'S CHALLENGE" mixture contains all the finest *Giant* strains—of the leading Pansy Specialists in the world—the *Giant* self colors, the *Giant* striped and margined, and the *Giant* blotched—all carefully mixed in proportion—the *finest* that money can buy—the *finest* your money can buy. A florist who has grown it, said "Why don't you call it *Defiance*!"

Trade pkt. 75c, 1-4 oz. \$1.50, 1-2 oz. \$2.75, oz. \$5.00. New crop ready July.

... Order Now ...

A. T. BODDINGTON, 342 W. 14th St., N.Y. City

ESTABLISHED 1802

Thorburn's Seeds

Trade Bulb List ready middle of July.

PRR 1000 SEEDS

Asparagus plumosus nanus seeds..... \$2.25

Asparagus plumosus robustus seeds.... 2.50

Cold storage Lily of the Valley pips, best possible grade, in cases of 1,000 and 3,000 pips each, at \$12.00 per 1,000.

BERMUDA EASTER LILIES AND ROMAN HYACINTHS.

SEND FOR PRICES

J. M. THORBURN & CO.

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NEW YORK

Everything of the Highest Grade

Vick's Superb Pansy Seed

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 85c 1-4 oz. \$1.60 Ounce \$6.00

JAMES VICK'S SONS, Rochester, N. Y.

High Grade Seeds for Market Gardener, Florist and Farmer

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FISKE'S SEEDS

For Immediate Sowing

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GLADIOLUS BULBS

In variety and mixture

Our Trade List Mailed on Application

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Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,

The Greenhouse,

For the Herbaceous Garden,

For the Flower Garden,

For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00; 500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY CO.

32 & 33 So. Market St., BOSTON

BRIDGEMAN'S SEED WAREHOUSE RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

CAULIFLOWERS CABBAGE

HJALMAR HARTMANN & CO.,
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BRASLAN SEED GROWERS CO.

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WHOLESALE TRADE ONLY

SAN JOSE, - - CALIFORNIA

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The Largest Seed Growers in the United States

CELERY PLANTS

Golden Self-Blanching, Giant Pascal, White Plume, Winter Queen, \$1.25 per 1000. Borecole, \$1 per 1000. Brussels Sprouts, \$1 per 1000. Leek, \$1 per 1000.

CABBAGES

Early and Late Flat Dutch, Succession, Savoy, \$1.00 per 1000. Cash with order, please.

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Jenkintown Station.

30 Minutes Ride

And see
our**KENTIAS**

100 Trains Daily

JOSEPH HEACOCK CO.,Clean, Thrifty Stock
Our Specialty**DUTY ON EVERGREEN SEEDLINGS.**

The customs authorities have many delicate questions which they are called upon to decide. The following opinion of the General Appraisers is sufficiently close and interesting enough to warrant publishing it in full:

(T. D. 28247—G. A. 6618.)
Evergreen seedlings.

Plants from 2 feet to 2 1/2 feet high, propagated or raised from the seed of the Indian "deodar" (*Cedrus deodara*), which is a forest cedar native of the Himalayas, are not dutiable as "seedlings of ornamental evergreen trees," or as "nursery stock" at 25 per cent. ad valorem under paragraph 252, tariff act of 1897, but as "evergreen seedlings" at \$1 per thousand plants and 15 per cent. ad valorem, as provided for in the same paragraph.

United States General Appraisers, New York, June 14, 1907.

In the matter of protest 251489 of Howard & Smith against the assessment of duty by the collector of customs at the port of Los Angeles.

Before Board 3 (Waite, Somerville, and Hay, General Appraisers).

Waite, General Appraiser: The importation consists of 1000 evergreen seedlings. The relevant provisions of paragraph 252 of the tariff act of 1897 are as follows:

(1) Evergreen seedlings, one dollar per thousand plants and fifteen per centum ad valorem; (2) stocks, cuttings and seedlings of all fruit and ornamental trees, deciduous and evergreen, shrubs and vines, manetti, multiflora and brier rose, and all trees, shrubs, plants and vines, commonly known as nursery or greenhouse stock, not specially provided for in this Act, twenty-five per centum ad valorem.

The testimony shows that the plants in question are propagated or raised from the seed of a forest cedar, native of the Himalayas, botanically known as *Cedrus deodara*, which is the Indian "deodar." Those in the importation are from 2 feet to 2 1/2 feet high, and have been transplanted. This fact, however, does not remove them from the class of seedlings. G. A. 5305 (T. D. 24305).

In the opinion of the Board these plants are not "seedlings of ornamental evergreen trees," unless all varieties of pine and fir should be so classified. It is matter of common knowledge that the deodar is a forest tree, and while ornamental in the broad sense that applies to many other forest trees, probably is chiefly valuable for its timber. "Deodar," Standard Dictionary, and "cedrus," Paxton's Botanical Diction-

ary. Unless the earlier provisions for "evergreen seedlings" in paragraph 252 covers such plants, we fail to see what application it can have. There is, moreover, doubt in our mind, in view of the comprehensive nature of the last provision in paragraph 252 and the fact that it is qualified by the words "not specially provided for," whether the term "seedlings" in said provision refers to the evergreen trees therein provided for, as it would have ample scope with reference to the various other trees, plants, etc., mentioned in such provision. G. A. 5645 (T. D. 25211); United States v. American Express Company (T. D. 28206).

The Board has also considered whether the last clause of section 7 of the act might not be invoked. It provides:

If two or more rates of duty shall be applicable to any imported article, it shall pay duty at the highest of such rates.

Under this provision the rate of 25 per cent. ad valorem assessed by the collector in this case would be higher than the duty of \$1 per thousand plants and 15 per cent. ad valorem, which the importers claim to be applicable inasmuch as the plants are valued at \$102 per thousand. It is evident that if this were made the test evergreen seedlings would be dutiable at the former or the latter rate according as they were valued at more or less than \$10 per thousand plants. Under the doctrine of *Loggie v. United States*, decided by the circuit court of appeals for the first circuit (137 Fed. Rep., 813; T. D. 26340), it would be improper to apply section 7 under such circumstances.

We are of the opinion that the plants in question should be classified as evergreen seedlings under the first provision in paragraph 252, and sustain the protest and reverse the collector's decision.

CATALOGUES RECEIVED.

F. M. Pattington, Scipioville, N. Y. Trade list of vegetable plants, strawberries, etc.

J. A. McDowell, City of Mexico. Trade List of Cacti, Orchids and Bulbs for 1907.

R. & J. Farquhar & Co., Boston, Mass.—Midsummer Catalogue, seeds for summer sowing, pot-grown strawberries, bulbs, garden furniture, etc.

Arthur T. Boddington, 342 W. 14 street, New York. Summer and Autumn Catalogue of Florists' Bulbs and Seeds. A good selection of the best things for forcing and planting.

JUST TO HAND

C. Trianae, Den. Phalaenopsis, D. Wardianum, Vanda Cerulea, V. Kimballiana, V. Amesiana, L. Anceps, L. Albida, Epidendrum Vittelinum, Cattleya citrina, Odonto. Rossii Majus
CARRILLO & BALDWIN, SEGAUCUS N. J.

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Cattleyas, Laelias, Oncidiums, Odontoglossum, Epidendrum, etc.

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JUST ARRIVED JUST ARRIVED

Cattleyas Percivalliana, Sanderas and Speciosissima, Oncidium Kramerianum and Gaskelliana.

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ORDONEZ BROS.
MADISON, N. J.

P. O. Box 105. Phone 143 Madison.

Just arrived in superb condition:

Cattleya Percivalliana, Cattleya labiata, Cattleya Schroederiae, Oncidium varicosum Rogersii, O. Crispum, O. Marshallianum, O. luridum, Miltonia Cuneata, M. Candida, M. Clowesii, Laelia Crispa, L. Dayana, L. Praestans, etc. Write for prices.

LAGER & HURRELL, Summit, N. J.

You will find something worth reading on every page of HORTICULTURE.

JAPANESE
THE YOKOHAMA NURSERY CO.
31 BARCLAY STR. NEW YORK.
LILIES
PLANTS
BAMBOO STAKES

PREPARE FOR CHRISTMAS

Novelties always sell during the holidays. If you have not already grown them, try some Pink or Rose SPECIOSUMS. If potted in July will flower for Thanksgiving and Christmas. Always useful either for cut flowers or plants. Ask the leading florists in Pittsburgh, Cleveland, Detroit, Buffalo, or around New York City. Order today. Will ship any time. Cold storage Lilium longiflorums and giganteums take about two months to bloom from time of potting; speciosums from five to six months, so that longiflorums wanted for Thanksgiving and Christmas should be planted about Oct. 1, and speciosums in July.

ALL CASES ARE REPACKED BEFORE SHIPMENT

Lilium Longiflorum Giganteum	Per 100	Per 1000	Lilium Longiflorum Multiflorum	Per 100	Per 1000
7 to 9 inch bulbs, 300 in case	\$ 9.00	\$ 80.00	9 to 10 inch bulbs, 200 in case	\$11.00	\$100.00
Lilium Speciosum Rubrum			Lilium Speciosum Melpomene		
8 to 9 inch bulbs, 200 in case	8.00	75.00	8 to 9 inch bulbs, 200 in case	9.00	80.00
9 to 11 inch bulbs, 150 in case	12.50	110.00	9 to 11 inch bulbs, 150 in case	12.00	115.00

Full Cases Sold at 1000 Rate

ARTHUR T. BODDINGTON, 342 West 14th St., New York City

200,000 Calla Lily Bulbs--Æthiopica



Calla Æthiopica, 10 inches circumference	100	1000
" " 9 "	\$10.00	\$90.00
" " 8 "	9.00	80.00
" " 7 "	8.00	70.00
" " 6 "	7.00	60.00
" " 5 "	5.50	45.00
" " 4 "	4.50	35.00
" " 3 "	3.50	25.00
" " 2 "	2.25	15.00

The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My first car leaves for the East promptly on July 15. If cash is sent with the order I will prepay the freight, which is 15 per cent value of the bulbs.

A. MITTING, 17-23 Kennan Street, SANTA CRUZ, CAL.

WHOLESALE TRADE LIST

Plants from 2½ in. pots, 50c. per doz. \$3.00 per 100

Ageratum Inimitable, Blue Perfection, Heliotropes, Lobelia, Parlor Ivy. Shasta Daisies, 3 varieties. Night-Blooming Jasmine. Stevias dwarf and tall, Asparagus Sprengerii. Asparagus plumosus, strong plants, 5-inch pots, \$2.00 per doz. Passiflora, Mammoth Beauty, a hardy variety from 3-inch pot plants, 75c. per doz. Clematis paniculata, 3-inch pots, \$5.00 per 100. Clematis, large-flowering varieties, home grown, two year old plants, \$3.00 per doz. Swainsona alba, 3-inch pots, \$5.00 per 100. Achyrantes Lindenii, Alternantheras, yellow, 2½-inch pots, \$2.00 per 100. Crotons, 4 in. pots, \$2.00 per doz. Asparagus Sprengerii, seedlings from flats at \$1.00 per 100. Chrysanthemums, best leading varieties, White, Yellow and Pink Plants from 2½-inch pots, \$2.00 per 100. Geraniums in full bloom, scarlet, pink and white, 4-inch pots, \$5.00 per 100.

C. EISELE. - - 11th and Roy Streets, PHILADELPHIA, PA.

Give Us a Trial on Azaleas.

250,000 fine shaped plants grown exclusively for us by Eugene Verveat De Vos, Swynearde near Ghent, Belgium, in his own gardens. Special prices upon request.

JOHN SCHEEPERS & CO., 4 & 6 Old Slip, NEW YORK.

GOVERNOR HERRICK VIOLET

The best single Violet on the market today. A strong grower, excellent bloomer, and fine dark color. Strong healthy plants ready for immediate planting. From 2 inch pots Price \$4 per 100, \$35 per 1000

H. A. MOLATSCH & SON P. O. Box 44. Nanuet, N. Y.

DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; prompt delivery.

DAVID HERBERT & SON, Successors to L. K. Peacock, Inc. ATCO, N.J.

20,000 SALVIAS

Fine Stock,

BONFIRE, ST. LOUIS and SPLENDENS

2½ inch pots, \$3.00 per 100.

3 inch pots, \$4.00 per 100.

GARDENIA VEITCHII

20,000 plants in 2½ and 3 inch pots. Fine clean stock.

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Rutland Road and East 45th St. Telephone 2890 Bedford. **BROOKLYN, N. Y.**

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Importer and Wholesale Grower and Shipper

of Araucaria Excelsa, Compacta, Robusta and Glauca; Kentia Forsteriana and Belmoreana Azalea, Indica, etc. Cultivator of Boston, Scottii, Barrowsii, Elegantissima and Whitmai Ferns. Ferns for dishes, Cocos, etc. Write for prices.

1012 Ontario St., Philadelphia

Gardenia Plants

Fine Stocky Plants
Out of 3 inch Pots

\$2.50 per doz.; \$15.00 per 100;
\$25.00 per 200; \$120 per 1000.

STUMPP & WALTER CO.

50 Barclay St., New York.

GERANIUMS

Standard varieties and Novelties, for \$2.00 per 100 up to 75 cts. each. We will send 1000 in twenty varieties, our selection, single and double, for \$18.00 cash with order. Send for our Geranium catalogue, it contains descriptions of over 175 varieties. Visitors always welcome.

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Importers and Exporters
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DECORATIVE PLANTS

PERKINS ST. NURSERIES, ROSLINDALE, MASS.

2000 Asparagus Sprengerii

From bench two and three years old.

\$5.00 per hundred \$40.00 per thousand
... Cash with order ...

DEPEW BROTHERS

Cor. Piermont and DePew Avenues, **NYACK, NEW YORK**

3000 SMILAX PLANTS

\$30 per Thousand. Apply to

WELCH BROS.

226 Devonshire Street, Boston, Mass.

Prices Quoted in these Columns are for Dealers Only. When Writing to Advertisers Please Mention HORTICULTURE.

MELONS UNDER GLASS.

Read before the Morris County Gardeners and Florists' Society, June 12, 1907, by Robt. Tyson.

Starting the Seedlings.

Good, well-finished melons are considered by many as one of the best fruits grown, especially in the summer time. The houses in which they are to be grown should be thoroughly washed and painted, if possible, to insure getting rid of insects. The time for sowing the seeds depends on when the fruit is wanted, the crop taking from start to finish about three months.

Start by sowing good plump seeds singly in 3 in. pots in good fibrous loam, put in a temperature of from 70 to 75 degrees, and in about a week germination will have taken place. Keep the growing plants as near the glass as possible, in the same temperature, to insure sturdiness. When they are well rooted in 3's they may be planted or potted on to a larger size, as circumstances require.

Planting, Staking, etc.

A bed 6 in. deep and 10 in. wide, formed between two boards and made up of good loam with a little wood ashes or charcoal mixed through it, will be sufficient to start with. Make it firm, but not too hard for the water to get through it readily, and set plants about 28 or 30 inches apart. Keep the house at a temperature of 70 degrees nights, with a rise of 10 degrees by sun heat, ventilating on all favorable occasions, but avoiding cold draughts. A syringe overhead twice a day and careful watering is very essential until the young plants have started in the bed, when they will need a stake to carry them to the trellis. In placing the stake, be careful to keep well away from the ball of roots, otherwise many may be cut off. Tying now must be attended to, and all lateral shoots pinched out until the trellis is reached, after which they are to be trained to the wires. When the plant reaches the top of the wires, the point should

be pinched out to encourage the side shoots to grow freely.

Pinching and Setting.

Most varieties show the female or fruiting flowers at the first leaf on the lateral. These ought to be pinched at the second leaf, or one beyond the flower; others which do not show flowers ought to be pinched at the first leaf and allowed to break again, when they will flower on the sub-lateral. As the flowers open, a dryer atmosphere will be beneficial, and about noon each day, if the pollen is dry, artificial fertilization must be resorted to either by means of a camel's hair brush or otherwise, all of which is easily understood.

After a set has been obtained, thin to the required number, two, or at most three, fruits to a plant, taking care that they are all of one size, otherwise some will swell at the expense of others.

Fertilizing.

At this stage, examination of the bed may disclose a mass of roots. In this case, open out the boards three or four inches and fill with soil, the same as used when planting, with the addition of a 6 in. pot of Clay's fertilizer to about a wheel-barrow load, covering also any roots that appear on top of the bed. In a few days, or when the fruits are about the size of a croquet ball, some support will be necessary, either by pieces of net or boards (net preferable). If boards are used, holes in the bottom are necessary to let away any moisture. When the fruit is swelling, do not allow the plants to suffer for water; also avoid letting the bed get too dry before watering, or cracking of the fruit will follow. After they are rooted through all the soil, some weak manure water will be helpful, increasing the strength and changing it occasionally if the fruit is wanted large, but discontinue feeding and diminish the water supply when the fruits have finished swelling and show signs of ripening. Syringe and ventilate freely at all times and during ripening a little air left in all night when the temperature is above 65 degrees will improve the flavor.

Insect Enemies.

The worst enemy of melons in the

way of insects is red spider, but if syringing the plants and dampening the house are properly attended to, there will be little red spider. If it should get a start, "X L All" insecticide, one part to forty water, will clean it out and do no harm to the plants. The same dose is applicable for green or black fly. Canker is sometimes troublesome. Should it put in an appearance, a little dry lime or powdered charcoal rubbed over the affected parts will arrest it. Prevention is better than cure, so don't syringe too late in the afternoon but what the leaves can fully dry out before night; and, again, don't water too near the stem of the plant.

The fruit will show signs of ripening by cracking around the stem. When it is cracked all around, cut from the plant and keep in the fruit room twenty-four hours before using, which will greatly help the flavor.

The Best Varieties.

The best varieties in our opinion are—green fleshed, Royal Jubilee and Sutton's Ringleader; scarlet fleshed, Sutton's Superlative; white fleshed, Hero of Lockings and Sutton's Perfection. All the varieties mentioned are English, which we find are better adapted to indoor culture than the American varieties, not so much in point of flavor, but for thickness and firmness of flesh. Of all the varieties we are growing and have grown, Royal Jubilee is the best, being a free grower, good setter and fine flavored, fruit on plants carrying two or three averaging from five to eight lbs.

Crops in eastern Massachusetts are backward, but with prospects for an average yield in most of the staples. There will be a big apple crop, considering that this is the "off year," especially in the hill towns. Corn is looking well on the average; backward, but about the usual acreage. There is fully the usual acreage of potatoes, and since warm weather set in they are starting along in good shape. Asparagus has yielded a light crop and of only medium quality, but other market garden products have been about as usual in yield and price. Berries will be late and crop light.



ANNUAL PICNIC OF THE NEW YORK FLORISTS' CLUB.

News Notes.

A fire destroyed the retail store of Jex the Florist, at Spanish Fork, Utah, on July 3.

The florists of Concord, N. H., will close their stores on Wednesday afternoons during July and August.

Five o'clock on week days and noon on Sundays is the closing time for the summer agreed upon by the wholesale florists of Chicago.

Philip Gurney doing business as C. W. Gurney & Son and The Wakefield Nursery, Wakefield, Neb., has gone into bankruptcy. Assets light, liabilities heavy.

A superb pan of *Crassula coccinea*—a mass of brilliant bloom nearly three feet in diameter—is a potent attraction in Thos. F. Galvin's store window on Tremont street, Boston, this week.

An inquest in the case of Frank Sloan, night watchman at the nurseries of Ellwanger & Barry, Rochester, N. Y., who was found dead on June 30, strengthens the theory that his death was due to electrocution.

"Penn, the Florist," was the winner of first prize for the most artistically decorated wagon in the July 4th parade at Somerville, Mass. The same horses took first prize in the Boston work-horse parade on May 30th.

INCORPORATED.

J. Gammage & Son, Ltd. Capital \$100,000.

O. S. Williamson Co., Rochester, N. Y.; capital, \$6,000.

Glen Bros., nurserymen, Rochester, N. Y. Capital \$50,000.

Stocton Nursery Company, Sonora, Cal. Capital stock \$25,000.

John E. Sambrook & Co., Berlin, N. Y.; J. E. Sambrook, P. Schroeder, A. L. Schroeder; capital, \$2,500.

Saltford Flower Shop, Poughkeepsie, N. Y.; W. G. Saltford, W. A. Saltford, G. C. Saltford; capital, \$5,000.

Arthur Dummett, Mt. Vernon, N. Y., landscape gardening; A. Dummett, Anna Dummett, Erdwina Hertzelt; capital, \$1,000.

The J. M. T. Wright Nursery Co., Portland, Ind.; J. A. Shewalter, pres.; J. M. Spade, vice-pres.; M. A. Wright, sec'y; J. M. T. Wright, manager.

OBITUARY.

John Ernesterhoff, aged 70 years, of Newport, Ky., was attacked with vertigo while on his wagon and fell into the street, June 28. He died shortly after.

KORAL SCRIPT LETTERS AND EMBLEMS

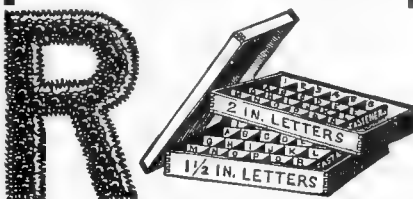
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Forsale by all first class supply houses. Made by

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Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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DETROIT, MICH.

Artistic Designs . . .
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Geo. H. Cooke FLORIST

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NEW ENGLAND POINTS
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The Westward Movement...

The most remarkable shipments of **Sterling Novelties in Florists' Supplies** ever sent to this continent are now on the water en route to Philadelphia. These goods have all been personally selected by Mr. H. Bayersdorfer who has spent many weeks in the largest and most progressive **European Sources of Supply**. A life time devoted to this work has equipped Mr. Bayersdorfer with a discernment of the distinct needs of the American market possessed by no other buyer, and the result will be a display at the time of the S. A. F. Convention in Philadelphia such as has never been equaled. Send for Catalogue

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EVERYTHING SEASONABLE IN
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EDWARD REID, Wholesale
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1526 RANSTEAD ST., PHILADELPHIA
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EASTER LILIES Daily supplies,
from now until
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DAILY CONSIGNMENTS
From 40 to 60 Growers

We can care for your cutflower wants to
advantage.

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Public Accountant and Auditor
Simple methods of correct accounting
especially adapted for florists' use.
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Valley, Roses and all Cut Flowers

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WHOLESALE

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In writing advertisers mention Horticulture

AMERICAN BEAUTY and all other
ROSES
LILY OF THE VALLEY, CARNATIONS
WELCH BROS., 226 Devonshire St., Boston, Mass.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO June 24	TWIN CITIES June 24	PHILA. July 8	BOSTON July 10
ROSES				
Am. Beauty, Fan. & Sp.	25.00 to 35.00	20.00 to 25.00	20.00 to 25.00	15.00 to 25.00
“ Extra.....	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	10.00 to 12.00
“ No. 1.....	10.00 to 12.00	12.00 to 15.00	8.00 to 12.00	6.00 to 8.00
“ Lower grades.....	4.00 to 6.00	10.00 to 12.00	3.00 to 5.00	.50 to 3.00
Bride, Maid, Golden Gate, F. & S.	5.00 to 6.00	8.00 to 10.00	5.00 to 8.00	4.00 to 5.00
“ “ Extra.....	4.00 to 6.00	6.00 to 8.00	3.00 to 4.00	3.00 to 4.00
“ “ No. 1 & lw. gr.	2.00 to 3.00	2.00 to 4.00	1.00 to 2.00	.50 to 1.00
Liberty, Richmond, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	8.00 to 10.00	4.00 to 6.00
“ Lower grades.....	3.00 to 5.00	6.00 to 8.00	2.00 to 5.00	.50 to 4.00
Chatenay, Morgan, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	5.00 to 6.00	2.00 to 3.00
“ Lower grades.....	3.00 to 4.00	6.00 to 8.00	2.00 to 4.00	.50 to 2.00
Kaiserin, Carnot, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	6.00 to 10.00	4.00 to 6.00
“ Lower grades.....	3.00 to 5.00	6.00 to 8.00	2.00 to 5.00	1.00 to 2.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	5.00 to 6.00	4.00 to 6.00
“ Lower grades.....	3.00 to 4.00	6.00 to 8.00	2.00 to 4.00	1.00 to 3.00
CARNATIONS				
Fancy and Novelties.....	1.50 to 2.00	1.50 to 2.00	2.00 to 3.00	1.00 to 1.50
Ordinary.....	.75 to 1.00	.75 to 1.00	.75 to 1.50	.50 to .75
MISCELLANEOUS				
Sweet Peas.....	.50 to 1.00	.75 to 1.00	.20 to .50	.25 to .50
Cattleyas.....	40.00 to 50.00	50.00 to 60.00	..... to 60.00	35.00 to 60.00
Lilies.....	10.00 to 12.00	12.00 to 15.00	8.00 to 10.00	4.00 to 6.00
Lily of the Valley.....	3.00 to 4.00	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00
Gardenias.....	.50 to 1.50	.50 to .75	8.00 to 10.00	2.00 to 10.00
Mignonette.....	4.00 to 8.00	3.00 to 5.00	..... to 1.00	1.00 to 2.00
Adiantum.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax.....	15.00 to 18.00	12.00 to 15.00	12.00 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00	..... to 30.00	35.00 to 50.00	..... to 50.00
“ “ & Spreng. (1000 bchs.)	35.00 to 50.00	..... to 30.00	35.00 to 50.00	35.00 to 50.00

POEHLMANN BROS. CO.

Grow and Ship the Finest

AMERICAN BEAUTIES
in the World.

35-37 Randolph St., - CHICAGO, ILL.

**The Florists' Supply House
of America**

Can fill hurry orders. Telephone or Telegraph

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Anything of Value

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We extend a cordial invitation to all out of town florists, and will be pleased to have them make our central location their headquarters during their stay.

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Wholesale Florists

1305 Filbert St., Philadelphia

FLOWER MARKET REPORTS

BOSTON Very little business is coming in at present to either retail or wholesale flower people and, as usual at this dull season, growers are throwing out old stock and replanting, thus shortening up the supply for the time being. Quality is not extra on any line of roses, but the summer favorites are improving in size and finish, and by the time Boston's Old Home Week celebration is on there will be some fine roses to tempt the visitors. Carnations are on the downward grade as to quality. Sweet peas and lily of the valley are excellent. Fancy pond lilies are abundant.

BUFFALO Conditions have changed but slightly during the past week. Peonies which should have been over with three weeks ago, were in abundance, with no demand whatever. Roses and carnations were still in heavy supply with no outlet; on the latter the prices were the lowest of the season, the best varieties being Lawson and Victory; as for Enchantress and other varieties, "Sleepy Side," Beauty, Richmond, Killarney, Chatenay, Carnot and Kaiserin roses are of excellent quality; Bridesmaid and Bride, milked and poor. Very little demand for anything; the coolers are overloaded at the wholesalers', and the retailers buy only what little is needed. Vacations are in order and picnic talk getting louder.

NEW YORK The receipts of flowers in all varieties and all degrees of quality, outdoor and indoor, continue heavy, but in some lines considerably lighter than at last report. It makes little difference whether the receipts are large or small, and they might be cut down to one-quarter their present bulk without creating a ripple on the surface of values or adding one cent to the income from their sale. There is little for anybody to do except to keep things tidied up and look resigned.

PHILADELPHIA Business is about normal for mid-summer with

much more material arriving than there is demand for. The quality as a rule is poor with the exception perhaps of American Beauty and Kaiserin roses, and lilies. Really good carnations are not to be had. Sweet peas are now about on their last legs. Asters have commenced arriving but quality nothing extra as yet. Japanese iris are another new feature, as are also an unusual quantity of candidum lilies. It is a pity these could not have reached us earlier in the season but as it is they find a fairly good market for funeral design work. Other summer staples are in good supply and quality. The market is full of every variety of material and no buyer need worry about having his wants satisfactorily filled.

SAN FRANCISCO

The last week has been quite busy on account of the school commencement and graduating exercises. This has been quite a boon to the florists of San Francisco, as the street car strike has sent most of the flower-buying people out of the city earlier than usual. The street car service is steadily improving, however, so we are looking for another prosperous season, for which florists and growers will be more than thankful.

WASHINGTON

There is almost nothing doing in the cut flower line. Several of the florists have filled up their windows very artistically as miniature ponds and that gives the pond lilies a slight showing. Carnations and sweet peas are almost things of the past; the growers are beginning now to throw out their old carnation plants to make room for the new crop in August. Let us hope we will have some better growing weather, before they will have to be moved in.

There is a fair demand for pond lil-

ies, and all kinds of green goes at good figures for this time of year. Sweet peas are a glut and can hardly be disposed of at any price.

PHILADELPHIA NOTES.

The temporary quarters of the Philadelphia Cut Flower Co. are at 1502 Sansom St. W. J. Muth is sojourning at Lavalette, N. J.

A sweet pea exhibition was held under the auspices of the Penn. Horticultural Society on the 9th and 10th inst at Horticultural Hall, Philadelphia. Lectures were given on the evening of the 10th inst on sweet peas and hardy perennials.

Chas. E. Meehan of the S. S. Pennock-Meehan Co., is summering with his family at Ocean City, N. J.

The Elks convention has created a great commotion here. Decorations are very lavish. Among the most striking in the trade is the store front, window display, and interior of the Michell Seed Store, executed under the guidance of Philip Pfreud.

A special meeting of the Florists' Club Executive Committee was held on the 11th inst to complete the entertainment program for the convention in August. It is understood that the sentiment is strongly in favor of a purely Philadelphia program this time in the hope of dispelling the popular outside ignorance of the up-to-date character of this modern progressive city.

Thomas J. Oberlin of Sinking Spring, Pa., is highly delighted with his last week's sojourn in our midst especially with his visit to Samuel S. Pennock's country home. Since his lecture on the "hogbacks" many of our local growers and distributors are facetious and want to hear about the redemption of the hogback market, the hogback buyer, the hogback payer and the final elimination of the hog who insists on getting all four feet in the trough!

Howard M. Earl has arrived home after a record trip on crop inspection in California and other points West and South.

Welcome Visiting Elks

MAKE OUR PLACE YOUR HEADQUARTERS, AND INSPECT OUR NEW BUILDING

J. STERN & CO.

125 N. 10th Street, above Arch, Philadelphia, Pa.

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JOHN YOUNG**WHOLESALE FLORIST**Finest American Beauties and
Carnations**31 West 28 St. - NEW YORK****FORD BROTHERS**

48 West 28th Street, NEW YORK

FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

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A Reliable Place to Consign to or order from

Telephone: 3860-3871 Madison Square

A. L. YOUNG & CO.**WHOLESALE FLORISTS**

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Consignments of choice cut flowers solicited.
Prompt payments. Give us a trial.**The Reliable Commission House**Richmond Roses and Rich Flowers
of all varieties**JOS. S. FENRICH**

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LARGEST GROWERSA full line of Choice Cut Flower stock for all purposes. Comprises every variety
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GRADE OF **VALLEY** ALWAYS
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CARNEDIAS, DAISIES, ROSES AND CARNATIONS

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OPEN 6 A.M. DAILY

J. K. ALLEN106 W. 28 ST.
NEW YORKTelephone 167
Madison Sq.**All Grades of Flowers for All Grades of Buyers****NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY**

	Last Half of Week ending July 6 1907	First Half of Week beginning July 8 1907		Last Half of Week ending July 6 1907	First Half of Week beginning July 8 1907
Roses			Carnations, Ordinary .....	.50 to .75	.50 to .75
Am. Beauty, fan and sp.	10.00 to 15.00	10.00 to 15.00	Sweet Peas (100 bunches)	1.00 to 5.00	1.00 to 5.00
" extra	6.00 to 8.00	6.00 to 8.00	Cattleyas	25.00 to 50.00	20.00 to 50.00
" No. 1	3.00 to 5.00	3.00 to 5.00	Lilies	1.00 to 3.00	1.00 to 3.00
" Lower grades .....	.50 to 1.00	.50 to 1.00	Callas	3.00 to 4.00	3.00 to 4.00
Bride, 'Maid, Golden Gate, fan & sp	3.00 to 4.00	3.00 to 5.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
" " " Extra	2.00 to 3.00	2.00 to 3.00	Gardenias	2.00 to 10.00	2.00 to 10.00
" " " No. 1 & lw. gr.	.50 to 1.00	.50 to 1.00	Mignonette .....	.50 to 1.00	.50 to 1.00
Liberty, Richmond, fancy & special	4.00 to 6.00	4.00 to 6.00	Lilacs (100 bunches) .....	..... to .....	..... to
" lower grades ..	.50 to 2.00	.50 to 2.00	Peonies .....	.50 to 2.00	.50 to 2.00
Chatenay, Morgan, fancy and spec.	2.00 to 3.00	2.00 to 3.00	Adiantum .....	.50 to .75	.50 to .75
" lower grades ..	.50 to 1.00	.50 to 1.00	" Crocanum	1.00 to 1.50	1.00 to 1.50
Killarney, Wellesley, fan. and spec.	3.00 to 5.00	3.00 to 5.00	Smilax	8.00 to 12.00	8.00 to 12.00
" lower grades ..	.50 to 1.00	.50 to 1.00	Asparagus Plumosus, strings...	20.00 to 30.00	20.00 to 30.00
Carnations, Fancy and Novelties..	1.00 to 2.00	1.00 to 2.00	" " & Spren. (too bchs.)	10.00 to 25.00	10.00 to 25.00

ORCHIDS AT ALL SEASONS**WM. STUART ALLEN CO.**

Commission Merchants in Cut Flowers

53 WEST 28TH STREET, NEW YORK

Telephone 356 Madison Square

TRAENDLY & SCHENCK
WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on fall orders

Tel. 798.799 Madison Sq.

44 West 28th Street, New York City

Alexander J. Guttman**THE WHOLESALE FLORIST OF NEW YORK**

43 WEST 28th STREET

PHONES. 1664-1665 MADISON SQUARE

ENOUGH SAID**Edward C. Horan**
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55 WEST 28th ST.

Tel. 1462 Madison Square New York
1463**In writing to Advertisers kindly mention Horticulture**



HARDY FANCY CUT FERNS, Extra fine, \$1 per 1000

BRONZE GALAX, \$1.25 per 1000.

SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25

Hammond's Old English Liquid Putty, \$1.25 per Gal. Hammond's Greenhouse White Paint, \$1.50 per Gal.

DISCOUNT ON LARGE LOTS

Give us a trial order on ferns; we are sure we can please you. Headquarters for Florist Supplies and wire work. Write for price list on cut flowers and supplies.

MICHIGAN CUT FLOWER EXCHANGE, INC.,

Wholesale Commission Florists,

38-40 Broadway, Detroit, Mich.

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1891BUY FROM
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Telephone 3924 Madison Square.

Moore, Hentz & Nash,

Wholesale Commission Florists,

55 and 57 West 26th Street,

Telephone No. 756
Madison Square.

New York.

J. B. Murdoch & Co.

Wholesale Florists

FLORISTS' SUPPLIES

545 Liberty St., PITTSBURG, PA.

Long Distance 'Phone 1435 Court.

BUSINESS CHANGES.

The firm of Buth & Shea succeed Buth & Woback at De Pere, Wis.

L. Burnham has purchased the business of L. Davenport, Lawrence, Mass.

F. Pullman has bought out The Benton Floral Co., Benton Harbor, Mich.

Frank M. Gibbs has purchased the business of Mrs. C. D. Kingman of Middleboro, Mass.

George W. Marshall has purchased the business of the Elm Grove Flower Co., So. Norwalk, Ct.

Wm. Currier has purchased the interest of his partner in the business carried on at Elkhart, Ind.

The firm of Ordonez, de Nave & Co., Madison, N. J., has been dissolved. Business will be continued in the same place under the name Ordonez Bros., who have assumed all assets and liabilities of the old firm.

The firm of Dummett & Wagner of Mount Vernon, N. Y., has been dissolved. Mr. Wagner will carry on a retail flower business with greenhouses on Union avenue; Mr. Dummett will confine himself to the landscape and nursery business.

Members of the State Florists' Association met at the State House in Indianapolis, July 2, to make preliminary plans for the annual flower show to be held in Indianapolis early in November.

Richard H. Junge is president of the association and A. F. J. Bauer is secretary.

In place of Tomlinson Hall this year it is probable that the Propylaeum will be selected for the exhibition and admittance made free to the public.

Best Flowers

In the Boston Market

N. F. MCCARTHY & CO.

84 HAWLEY STREET

BOSTON, MASS.

SEND FOR PRICES

Headquarters in Western New York
FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

Wm. F. Kasting Co.

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.

BUFFALO, N. Y.

Give us a trial. We can please you.

HENRY M. ROBINSON & CO.

WHOLESALE FLORISTS

FRESH CUT FLOWERS, CUT EVERGREEN, AND FLORISTS' SUPPLIES.

15 Province St. & 9 Chapman Pl., Boston, Mass.

WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	July 9		June 24		July 8		July 8	
ROSES								
Am. Beauty, Fan. and Sp.....	to 25.00	25.00	to 35.00	20.00	to 22.00	15.00	to 20.00	
" Extra	18.00	20.00	25.00	15.00	20.00	10.00	12.50	
" No. 1.....	10.00	15.00	18.00	to 8.00	15.00	4.00	6.00	
" Lower grades.....	5.00	8.00	12.00	3.00	5.00	1.00	1.00	
Bride, 'Maid, Golden Gate, F. & S.	6.00	8.00	8.00	7.00	8.00	6.00	6.00	
" " " Extra.....	4.00	5.00	6.00	6.00	7.00	4.00	4.00	
" " " No. 1 & lw. gr.	2.00	3.00	4.00	2.00	6.00	2.00	2.00	
Liberty, Richmond, Fan. & Sp....	6.00	8.00	8.00	10.00	15.00	6.00	8.00	
" Lower grades.....	3.00	5.00	4.00	3.00	10.00	2.00	4.00	
Chatenay, Morgan, Fan. & Sp....	6.00	8.00	8.00	10.00	15.00	6.00	8.00	
" Lower grades.....	3.00	5.00	4.00	3.00	10.00	2.00	4.00	
Kaiserin, Carnot, Fan. & Sp....	6.00	8.00	8.00	10.00	15.00	6.00	8.00	
" Lower grades.....	3.00	5.00	4.00	3.00	10.00	2.00	6.00	
Killarney, Wellesley, Fan. & Sp...	6.00	8.00	8.00	10.00	15.00	4.00	6.00	
" Lower grades.....	3.00	5.00	4.00	3.00	10.00	2.00	2.00	
CARNATIONS								
Fancy and Novelties.....	to 2.00	3.00	to 4.00	1.50	to 2.50	to 1.50	1.50	
Ordinary.....	.75 to 1.50	.75	to 2.00	1.00	to 1.50	.50 to 1.00		
MISCELLANEOUS								
Sweet Peas.....	.25 to .50	.25	to .50	.20	to .50	.25	to .50	
Cattleyas.....	50.00 to 60.00	50.00	to 60.00	50.00	to 60.00	40.00	50.00	
Lilies.....	8.00 to 10.00	15.00	to 20.00	8.00	to 12.00	.....	8.00
Lily of the Valley.....	3.00 to 4.00	3.00	to 4.00	3.00	to 4.00	.....	4.00
Gardenias.....	to 2.00	.....	to 2.00	2.00	to 10.00	10.00	to 12.50
Mignonette.....	1.00 to 2.00	25	to 1.00	1.00	to 2.00	1.00	to 2.00	
Adiantum.....	..... to 1.00	1.00	to 2.00	.50	to 1.50	1.00	to 1.50
Smilax.....	10.00 to 12.00	12.50	to 15.00	15.00	to 20.00	12.50	to 15.00	
Asparagus Plumosus, strings.....	40.00 to 50.00	50.00	to 75.00	40.00	to 50.00	30.00	to 50.00	
" " & Spreng. (100 bchs.)	..... to 25.00	30.00	to 40.00	25.00	to 50.00	25.00	to 40.00

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties

and are dealers in

Glassware Decorative Greens and Florists' Requisites.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also

The KERVAN CO. 113 W28th St., New York

WHOLESALE DEALERS

Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

BOXES BOXES BOXES

LIGHT WOOD CUT FLOWER BOXES

Sizes in Stock

	per 100
3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

GETMORE BOX FACTORY, Incorporated,
BELLEVILLE, ALA.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIA PUBESCENS

Albert Dirwanger, 422 Congress St., Portland, Me.

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ACCOUNTANT

R. J. Dysart, 28 State St., Boston.

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ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

AGAVES

M. Bullocke, 85th St. and 2d Ave., Brooklyn, N. Y.

Variegated Agaves.

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AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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A. Leuthy & Co., Roslindale, Mass.

ASPARAGUS

C. Elsele.

11th and Roy Sts., Philadelphia, Pa.
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John C. Hatcher, Amsterdam, N. Y.
Asparagus Sprengerii.

Asparagus Sprengerii, 2-1 1/2 in.; ready for planting out or into larger pots. \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rates. J. F. Anderson, Short Hills, N. J.

Asparagus plumosus nanus and *Sprengerii*, 2 1/2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

ASTERS.

Sample's Asters, fieldgrown, ready to plant out. White, Shell Pink, Bright Pink and Purple, \$2.50 per 1000. Rosbach's Commercial Late, Shell Pink, Rose and Purple. (White all sold.) The best Aster to date, \$3.50 per 1000. A. & G. Rosbach, Pemberton, N. J.

AZALEAS

John Scheepers & Co., 4 and 6 Old Slip, New York.

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A. Leuthy & Co., Roslindale, Mass.

BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

C. Elsele, 11th and Roy Sts., Phila.
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100,000 Bedding Plants, all sorts. Write for prices. E. D. Kauback & Son, Malden, Mass.

BEGONIAS

J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Begonias Agatha, *Triomphe De L'Est*.

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Rex begonias, 2 in., 3c. J. H. Dann & Son, Westfield, N. Y.

Begonias—*Fairy Queen*, *Gracilis*, and other flowering kinds; 3 inch \$5 per 100. Harlowarden Greenhouses, Greenport, L. I.

Begonia Gloire De Lorraine for delivery after August 1st, rooted cuttings, 2 1/4 in. pots, \$12 per 100; \$100 per 1000. Orders filled in strict rotation. Send them in now and avoid disappointment. Julius Roehrs Co., Rutherford, N. J.

BOILERS

BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOXWOOD

Anton Schulthels, College Point, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y. Cold Storage Lillies.

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Johnson Seed Co., 217 Market St., Phila. For page see List of Advertisers.

John Scheepers & Co., 4 and 6 Old Slip, New York.

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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.

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James Vick's Sons, Rochester, N. Y. For page see List of Advertisers.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

CANNAS

The Conard & Jones Co., West Grove, Pa. For page see List of Advertisers.

3 1/2 and 4 in. Penna. Cannas, at 3c. U. G. Harglerode, Shippensburg, Pa.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md. Carnation Mabelle.

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F. Dorner & Sons Co., Lafayette, Ind. For page see List of Advertisers.

Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kauback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CHRYSANTHEMUMS

Castle Grove Greenhouses, Danville, Pa. For page see List of Advertisers.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting Co., 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums—All good late kinds, standard novelties out of 2 1/2 inch, up to September 1. Harlowarden Greenhouses, Greenport, N. Y.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2 1/2 in. stock are given on application. Poehmann Bros. Co., Morton Grove, Ill.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

Nothing worth growing but the best. Oct. Frost, Beatrice May and Nivena our most profitable white.

Rosiere, M. F. Plant, Mayor Weaver, grand new pinks, Pres. Roosevelt, the glorified Pink Ivory, Santa Claus the Xmas pink. Strong plants topped back 8c., R. C., 5c.

C. Touset, Mrs. Duckham, Oct. Sunshine, Monrovia, strong plants, 5c.; R. C., 3c.

J. K. Shaw, best early pink, Wm. Duckham, Enguehard, also Adelia, incurved white and Jeanne Nonin, the only late white; plants 3c., R. C., 2c. City greenhouses, Union City, Pa.

COLEUS

Coleus, Golden Bedder, from 2 1/2 in. pots, \$2.00 per 100. W. H. Mann, Stoughton, Mass.

Coleus, R. C., mixed, 50c 100; 2 in., 1c to clean up. Cash. U. G. Harglerode, Shippensburg, Pa.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Wm. H. Moon Co., Morrisville, Pa. American Arborvitae.

Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston. For page see List of Advertisers.

Edwards Folding Box Co., Philadelphia. For page see List of Advertisers.

Getmore Box Factory, Inc., Belleville, Ala. Light Wood Boxes.

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Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.

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Giant Hybrids transpl. ready for 2 in. and 3 in., \$3.50 100; \$30.00 1000; 3 in. strong, \$8.00 per 100. Plants grown of seed taken from the cream of my well known strain. Christ, Winterich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.

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Dahlias, strong field roots, good assortment to exchange for plants of Carnation Boston Market, Enchantress. H. W. Mann, Stoughton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.

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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

K. E. Juul, Elizabeth, N. J.

Dracaena indivisa.

Anton Schultze, College Point, N. Y.

Dracaena teriminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

EVERGREENS

Bay State Nurseries, N. Abington, Mass.
Small Evergreens.

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FERNS

Baur Floral Co., Erie, Pa.

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H. H. Barrows & Son, Whitman, Mass.

Nephrolepis Whitmanii.

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Siebrecht & Son, Rose Hill Nurseries,

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Nephrolepis Piersoni Elegantisima.

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Philadelphia.

Boston and Scottil Ferns.

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Stumpp & Walter Co., 50 Barclay St.,

New York.

Ferns in Flats.

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Godfrey Aschmann, 1012 Ontario St.,

Philadelphia, Pa.

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Boston ferns, fine young plants, \$1.00 and \$2.00 per 100. U. G. Harglerode, Shippensburg, Pa.

FICUS

Wm. C. Smith, 61st and Market Sts.,

Philadelphia.

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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 223-223-13 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,

Boston, Mass.

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G. A. Sutherland Co., 34 Hawley St.,

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Koral Mfg. Co., 26 Hawley St., Boston.

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H. M. Robinson & Co., 15 Province St., and

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Decorative Evergreens.

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Reed & Keller, 122 W. 25th St., New York.

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J. B. Murdoch & Co., 545 Liberty St.,

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H. Bayersdorfer & Co., 1129 Arch St.,

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J. Stern & Co., 125 No. 10th St., Phila-

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Congress St., Chicago.

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St., Chicago.

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Atlanta Floral Co., Atlanta, Ga.

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David Clarke's Sons, 2139-2141 Broadway,

New York.

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W. H. Donohoe, 2 W. 29th St., New York.

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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.

Long distance telephone connections.

FLOWER POTS

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John Scott, Rutland Rd., and E. 45th St.,

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Gardenia Veitchii.

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GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.

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J. E. Felthousen, Schenectady, N. Y.

Geraniums, strong in bloom, \$6.00 per

100. J. H. Dann & Son, Westfield, N. Y.

4000 Geraniums, S. A. Nutt, Poltevine,

White, John Doyle, \$6.00 per 100. Good

plants. Burgess & Cooney, 77 Lebanon

St., Maplewood, Mass.

2000 Geraniums—Nutt, La Favorite, Gen.

Grant, Pride of the West; 3-1-2 in. pots,

\$5.00 per 100; \$40.00 per 1,000. Wm. Pat-

terson, 92 South Central Ave., Wollaston,

Mass.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin,

New York.

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Gladioli. Write for leaflet. B. Ham-

mond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.

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GLASS, High Grade, Double Thick Green-

house Glass. Lord & Burnham, 1133 Broad-

way, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.

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GLAZING POINTS, Lord & Burnham

Special Glazing Nails (Points). Lord &

Burnham, 1133 Broadway, N. Y.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,

1133 Broadway, New York.

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J. C. Moninger Co., 117 East Blackhawk St.,

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S. Jacobs & Sons, 1365-79 Flushing Ave.,

Brooklyn, N. Y.

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Metropolitan Material Co., 1398-1408 Metro-

politan Ave., Brooklyn, N. Y.

D. Hille, 49 Washington St. N., Boston.

Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-

Iron Greenhouses, New Truss Houses and

Iron Frame Houses. Lord & Burnham,

1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.

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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B.

Improved V Shaped Gutter with drip gutter

attachment. Lord & Burnham, 1133

Broadway, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St.,

and 9 Chapman Pl., Boston, Mass.

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The Kervan Co., 113 W. 28th St., N. Y.

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Michigan Cut Flower Exchange,

33 & 40 Broadway, Detroit, Mich.

Fancy Ferns.

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E. A. Beaven, Evergreen, Ala.

Fadeless Sheet Moss.

A full line of ferns, galax, and all wild

greens. N. F. McCarthy & Co., 84 Haw-

ley St., Boston.

In writing to Advertisers kindly mention Horticulture

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Bay State Nurseries, N. Abington, Mass.
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HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.
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HYDRANGEAS.

John C. Hatcher, Amsterdam, N. Y.

IVY

Chas. Lenker, Freeport, L. I., N. Y.
English Ivy.
English Ivy, 2 in., \$2.00; R. C., 75c. per
100. J. H. Dann & Son, Westfield, N. Y.

INSECTICIDES.

Nicotifide kills all greenhouse pests.
P. R. Paethorpe Co.,
Eleventh St., Louisville, Ky.
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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St.,
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Gude Bros. Co., 1214 F St.,
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P. J. Hauswirth (temporary address) 13
Congress St., Chicago.
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William J. Smyth, Michigan Ave. and 81st
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Atlanta Floral Co., Atlanta, Ga.
For page see List of Advertisers.
Jacob Schulz, 644 4th Ave., Louisville, Ky.
For page see List of Advertisers.
David Clarke's Sons, 2139-2141 Broadway,
New York.
For page see List of Advertisers.
W. H. Donohoe, 2 W. 29th St., New York.
For page see List of Advertisers.
Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new
Christmas flowering plant. Write for de-
scriptive circular and price list. Chas. H.
Totty, Madison, N. J.

NIKOTEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

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August Roiker & Sons, 31 Barclay St., New
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Kentia Palms.
Kentia-Phoenix, etc., all sizes. Write for
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PEONIES

C. Betscher, Canal Dover, Ohio.
Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.
Peony and Phlox Manuals, 25 cents
each. One of the finest collections of
Peonies in America. C. S. Harrison's Select
Nursery, York, Nebr.
French Peonies. The best collection.
All varieties guaranteed true to name.
Large stock. Strong plants. Catalogue
free. Dessert, Peony Specialist, Chenon-
ceaux, France.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and
Wrought Pipe, Valves, Elbows, Pipe Hooks,
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz.
The Geo. Wittbold Co., 1657 Buckingham
Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
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Montrose Greenhouses, Montrose, Mass.
Grafted Brides and 'Maid on English
Manetti.
Low-budded roses, No. 1, \$95.00; No.
11-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.
Roses, Bride, Bridesmaid, Ivory, 2 1/2 in.,
shipped from 2 in., \$3.00 per 100; \$25.00
per 1000. Wm. B. Sands, Lake Roland,
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Garden Seeds.
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I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Mar-
ket St., Boston.
Pulverized Sheep Manure.
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SHEET MOSS

E. A. Beaven, Evergreen, Ala.

SMILAX PLANTS

Welch Bros., 226 Devonshire St., Boston.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIREA

Spirea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.

STEVIA

C. Elsele, Philadelphia.
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VEGETABLE PLANTS

Danish Ball Head Cabbage—Strong,
straight root-pruned plants, ready for field,
from the best imported seed, \$1.50 per 1000.
Frank Shearer & Son, Market Gardeners,
Binghamton, N. Y.

Celery Plants, \$1.00 per 1,000. Four mil-
lion stocky plants. Golden Self Bleaching
(French seed) White Plume, Winter Queen,
Giant Pascal and Golden Heart. F. Roch-
elle, Chester, New Jersey.

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The Chicago Lifter.

VENTILATING MACHINERY, New
Model encased, self-oiling gear; Standard
Model Open Gear. Lord & Burnham, 1133
Broadway, N. Y.

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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 88-40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

All standard frames in stock. Special de-
signs made to order in hurry-up time. N.
F. McCarthy & Co., 84 Hawley St., Bos-
ton, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for
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NURE.

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BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

APPRAISER'S DECISION.

No. 15840 — Greenhouse Stock — Cyrus Clumps—Protest 211757 of Henry & Lee against the assessment of duty by the collector of customs at the port of New York. Before Board 1, June 18, 1907.

The protest related to merchandise assessed with duty under paragraph 251, tariff act of 1897, and claimed to be free of duty under paragraph 548 (drugs), paragraph 562 (palm leaf), 566 (crude fibrous vegetable substances), or paragraph 617 (crude vegetable substances). Protest overruled.

McClelland, General Appraiser: The special report of the appraiser accompanying this protest states that the merchandise consists of "cycas stems." He further states that "the plants themselves are imported in the shape of dormant trunks or clumps, which are potted and subjected to heat, thus producing root and leaf growth. * * * As the cycas palm can not be transported from the Orient, it is removed from earth, the leaves and roots are allowed to dry off and when this is accomplished the clump or trunk is shipped."

Counsel for importers have indorsed on the papers the following:

Submitted on appraiser's report with request for favorable decision. Paragraph 251 provides only for various sorts of bulbs, bulbous roots, and corms, which these are not. (T. D. 28278.)

We have carefully considered the provisions of each of the said paragraphs relied upon by protestants for free entry, but fail to find any one of them that could reasonably be held to cover the merchandise in question; and therefore each of the claims is overruled. Thus it only remains to determine whether the collector's classification under paragraph 251 was the correct one. It may be open to question whether the cycas palm "dried off" with the leaves removed, is a palm within the meaning of the language of said paragraph 251; and we think it unnecessary to decide that question, since if it is not it is certainly greenhouse stock not specially provided for, under the provisions of paragraph 252 of said act, dutiable at the same rate assessed in this case by the collector.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Single head gardener on private estate with first-class experience under glass and outside. Protestant. Wages \$50 to \$60 per month and board. Reply to "Gardener," No. 6 South Market Street, Boston, Mass., care of R. & J. Farquhar & Co.

SITUATIONS WANTED

SITUATION WANTED

As working foreman or head gardener. Age 38; married. Best of reference. New England preferred. H. W., care HORTICULTURE.

SITUATION WANTED by young man, 24, in nursery. Englishman, seven years' experience chiefly under glass—Chrysanthemums, Tomatoes, Cucumbers, Vines. Bulb forcing, etc. Williams, care of Francis, 40 Chohannet St., Taunton, Mass.

FOR SALE

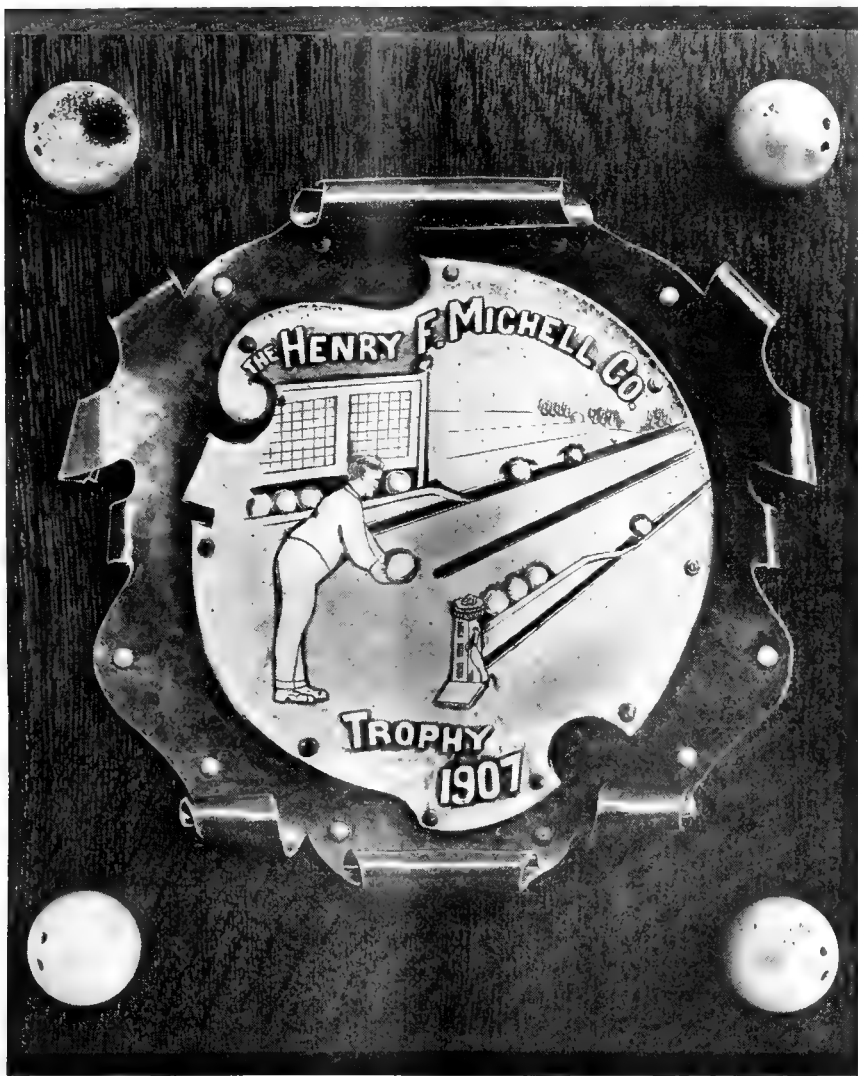
FOR SALE—Cheap. 10,000 flower pots, assorted sizes, 2 in. to 12 in. Jos. B. Anders, Hatfield, Pa.

MISCELLANEOUS WANTS

I want second-hand Greenhouse glass. Price must be low. H. Taylor, Box 132, Quincy, Mass.

Is Your Name In The Above List? If Not, Why Not?

A BEAUTIFUL S. A. F. TROPHY.



We picture herewith the Henry F. Michell Company's Bowling Trophy. It is to be contested for annually by the bowling clubs of the Society of American Florists and becomes the property of the club winning it three times. The first series of games will be played in Philadelphia from August 20th to August 24th.

The trophy, which was designed and made by Maxwell & Berlet, Inc., of Philadelphia, is a superb placque of Flemish oak, 14 inches long by 12 1-2 inches wide, on which is applied a hand-wrought copper shield—this, in turn, embellished with a solid silver shield, on which is etched a series of bowling alleys and a bowler about to play. The details of this etching are particularly interesting—the perspective is perfect, while even such small details as the score board, sponge and cup, sand box and hand cloth are not omitted. In each corner of the Flemish oak background is applied a massive silver bowling ball, on which will be engraved—each year—the name of the successful contesting club. The copper and solid silver shields are secured with hand-wrought rivets.

The entire piece suggests the arts craftsmanship which has sprung into favorable prominence during the past year.

This valuable trophy, through its originality, reflects great credit on the donors, the well-known seedsmen, the Henry F. Michell Company, 1018 Market Street, Philadelphia, Pa.

PUBLICATIONS RECEIVED.

Circular No. 90 of the Bureau of Entomology is devoted to the White-Fine Weevil, by A. D. Hopkins and is a partial revision of what has hitherto been published.

Bulletin 29 from the Office of Public Roads is on the Construction of Macadam Roads. Austin B. Fletcher, author. Fifty-six pages of instruction in the practice of road making, fully illustrated.

The "Use Book," containing instructions for the use of the National Forests has been issued from the office of the Secretary of Agriculture. This is the second revision of the regulations and instructions by Gifford Pinchot, Forester. The Appendix gives in full the statutes under which the National Forests are created and administered. The volume comprises 248 pages.

"The Chinch Bug" is the title of Bulletin 69 of the Bureau of Entomology, U. S. Dept. of Agriculture, by F. M. Webster. This bulletin is one

of the most elaborate ever sent out by the department, comprising 96 pages devoted to the habits, the parasites, remedial and preventive measures, and other valuable information concerning this notorious pest which, it is estimated, has already cost the agricultural interests of this country \$330,000,000.

The Nineteenth Annual Report of the Massachusetts Horticultural Experiment Station has been issued and, as usual, is full of valuable reports on topics of widespread interest which should be perused by every tiller of the soil. The section on fertilizers is interesting. It emphasizes the necessity for a reduction of the number of brands of fertilizers on the market and notes the decline in general quality of wood ashes. Especially valuable is the report of the botanist covering the use of Bordeaux mixture and its tonic influence on plant assimilation, the menace of the tomato rot, the injurious effect of improper spraying of trees, the bacterial disease of the cucumber under glass, the troubles due to improper use of fertilizers on tobacco, the San Jose scale, the injurious effects of banding trees, the injury to tree roots by illuminating gas, soil textures, etc. The entomologists' report is also full of instructive material and the horticulturist reports in detail the results of experiments in mushroom growing. The Massachusetts Experiment Station is fulfilling its mission wisely. The report will be sent free to all applicants.

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Additions.

Geneva, Ill.—John Lietzau, one house.

Austin, Texas.—E. Friedrich, one house.

Dover, N. H.—Charles Davis, house 30x100.

Fort Edward, N. Y.—W. L. Mead, one house.

Philadelphia, Pa.—Thomas Lees, one house.

Philadelphia, Pa.—J. W. Coldfish, house, 24x98.

Danvers, Mass.—Shirley & Fowle, carnation house.

Philadelphia, Pa.—C. H. Campbell, two carnation houses.

Port Allegheny, Pa.—Port Allegheny Greenhouses, one house.

Framingham, Mass.—Johnson & Nelson, carnation house. S. J. Goddard, violet house.

D. T. Connor, the Philadelphia representative of the Lord and Burnham Co., has moved to the Heed Building, Filbert street, above 12th. A model greenhouse, model boiler and other accessories are a part of the new office equipment. Miss Mary Connor is office assistant.

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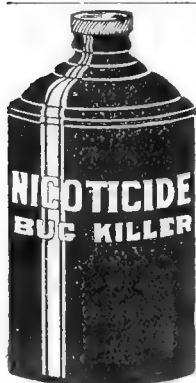
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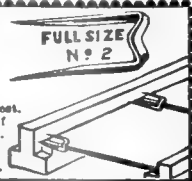
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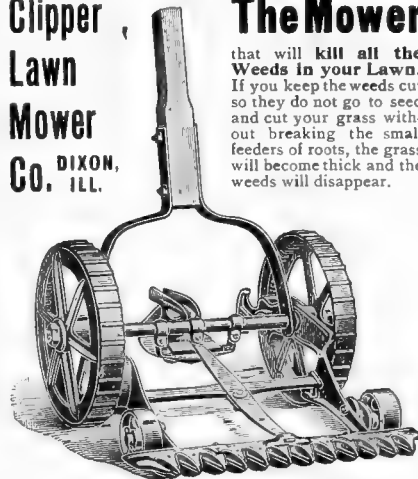
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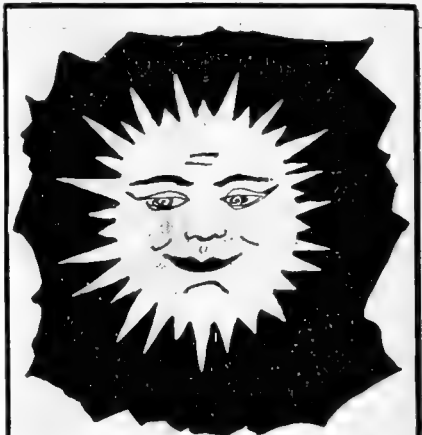
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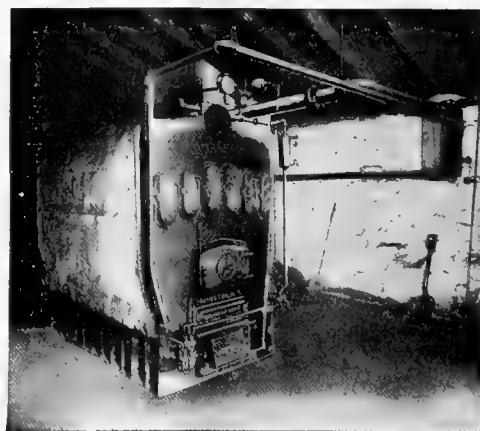
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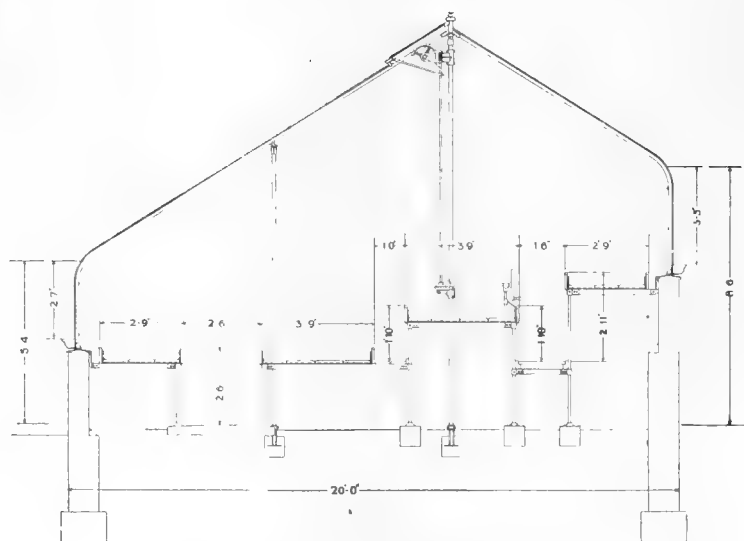
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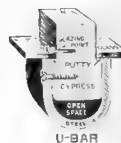
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These points may seem small of themselves, but they all combine to make the U-Bar house the perfect house it is. Did you ever send for that new catalogue?

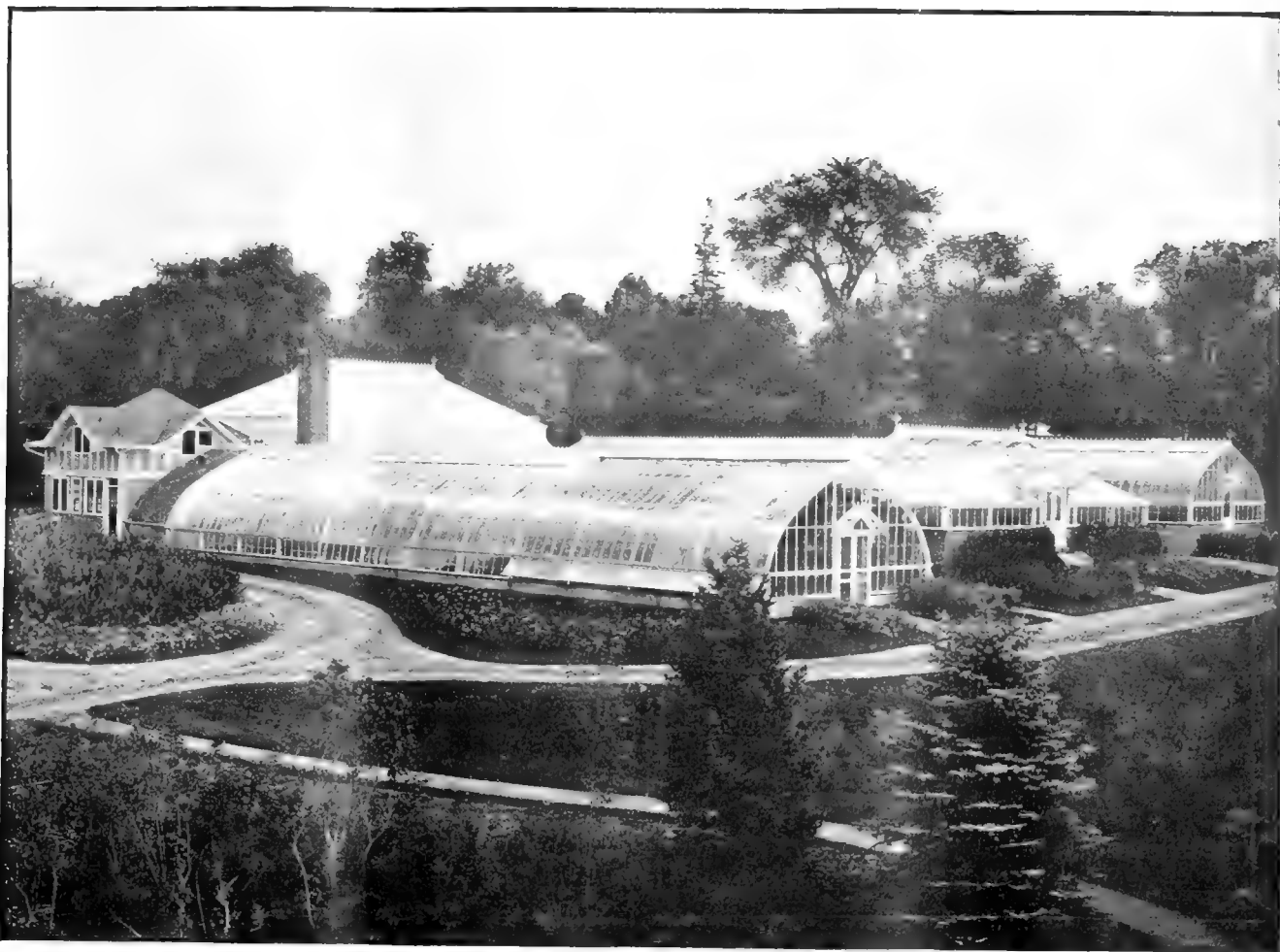
Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, 4th Ave. and Twenty-third St., New York.

HORTICULTURE

Vol VI.

JULY 20, 1907

No. 3



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JAPANESE
THE YOKOHAMA NURSERY CO.
31 BARCLAY STR. NEW YORK.
LILIES
PLANTS
BAMBOO STAKES

A National Rose Show

The most famous rose show that England can boast—the National Rose Society's Annual Metropolitan Exhibition—was held on July 4th in the beautiful grounds of the Royal Botanic Society in the heart of London. We have had wretched weather so far this summer—hardly a fine day for the past two months and very little sun—so that as fine a display as usual was hardly expected and we were fortunate in having only a showery day instead of a wet one. Her majesty, the Queen, visited the show early in the afternoon and spent a considerable time in the tents examining the exhibits that were on view. The blue ribbon of the show is the Champion Challenge Trophy, value sixty guineas, which together with a gold medal and four pounds in money, is offered for the best exhibit of seventy-two blooms of cut roses, distinct varieties, by nurserymen. Needless to say the winning exhibit which was from the famous Hitchin rose growers (R. Harkness & Co.) made a remarkably handsome display. There you can see at a glance seventy-two of the best roses in cultivation. Some of them no doubt are "exhibitors' roses," yet most of them are equally as valuable in the garden as for the show board. If I mention the names of a few of the best varieties in this exhibit they may be taken as being some of the finest roses in the show. Certain varieties were conspicuously good throughout the exhibition and most of them were to be found in the prize-winning stand of 72 blooms. The new Richmond rose that we received from the United States was splendidly shown, so too was Liberty which closely resembles it, and upon which Richmond is said to be an improvement. The flowers of the latter certainly seem larger and of brighter coloring. Lady Ashtown, a Hybrid Tea rose of perfect form, was admirably shown by many exhibitors. Mrs. W. J. Grant was a great favorite and has probably never been seen in finer form. The inimitable Frau Karl Druschki, the famous white Hybrid Perpetual, was shown in every class in which it was allowed and it was undoubtedly the finest white rose in the show.

You may remember that a few weeks ago I wrote saying that, at the instance of Mr. W. E. Nickerson, of Cambridge, Mass., the general committee of the National Rose Society decided, by ballot, that the three best roses were Frau Karl Druschki (H. P.), Dean Hole (H. T.) and Mme. Jules Gravereaux (T.). There were classes for these three roses and magnificent blooms of each were on view.

Probably the favorite exhibition Tea roses are Mrs. Edward Mawley and Maman Cochet, and they were as perfectly shown as one could wish. Some of the red and crimson roses were magnificent—in fact, it is doubtful if ever they have been finer than this year. The cool moist weather that has prevailed seems to have suited them perfectly. Such as Captain Haywood, C. J. Grahame, Crown Prince, Hugh Dickson, Prince Ar-

thur, Duke of Edinburgh, Duke of Wellington, Rev. Alan Cheales and other well known sorts were much admired.

Several new roses were shown. Two received gold medals and a card of commendation was awarded to each of two other new ones. The gold medals were awarded to the varieties Queen of Spain (H. T.) and Lady Helen Vincent (H. T.).

Queen of Spain has been on the market some little time. It is a full flower, of good form and has already made many friends, for it is suitable either for exhibition or for providing a quantity of cut bloom in the garden. The centre of the flowers is deep flesh pink, fading almost to white at the petal margins. This fine rose was sent out and exhibited by Messrs. S. Bide & Sons.

Lady Helen Vincent has shell-like petals, colored rosy salmon outside and paler within. It was exhibited by Messrs. A. Dickson & Sons, Ltd.

Mrs. Henry Weller, which received a card of commendation, is a new variety which is the result of a cross between Madame Abel Chatenay and Mrs. W. J. Grant. It may perhaps be best described by saying that it appears to be intermediate between the parents. It is of beautiful salmon rose coloring. Judging by the blooms on view this is a rose that will be more valuable for the display it makes in the garden than for the exhibitor's stand. Shown by Wm. Henry Weller.

Goldfinch is a new rambling rose remarkable for the rich yellow buds that it bears in profusion. When the buds develop and age they lose the rich coloring that distinguishes them when young, and become considerably paler. This rose, to which a card of commendation was awarded, was shown by Messrs. Paul & Son.

In the nurserymen's classes a silver medal is awarded to three blooms, the best Hybrid Perpetual, Hybrid Tea and Tea. The best Hybrid Perpetual was shown by Messrs. A. Dickson & Sons, who won the silver medal for a splendid bloom of Suzanne Marie Rhodocanachi. The silver medal for the best Hybrid Tea went to Mildred Grant, a well known exhibition variety, shown by Harkness & Co., in their first prize exhibit of 72 blooms. The silver medal Tea Rose was Mrs. Edward Mawley, a flower remarkable for its unusually rich coloring, shown by Burrell & Co.

Harry H. Thomas

Boston Old Home Week

The week of July 29—Aug. 3 will be a gala time in Boston. HORTICULTURE will be glad to extend a hearty welcome to visitors and hopes there will be lots of them. Make yourself at home at our office, 11 Hamilton Place, opposite Park Street subway station. Or telephone us (Oxford 292) on your arrival in Boston.

British Horticulture

A NOTED DEVON NURSERY

Amongst the awards given at the meeting of the Royal Horticultural Society this week was one for Veitch's hybrid calceolaria. This has been obtained from a cross between *C. plantaginea* and a variety of the herbaceous section. The moderate-sized flowers are of a brilliant yellow color, with a small red spot on the back of the lower lip. The foliage is similar to that of *C. plantaginea*. It has been grown in the open without protection, and has withstood several degrees of frost; it flowers in May and onwards. At the Cleve nursery of this firm a splendid display has lately been made with Himalayan rhododendrons. The chief varieties grown include *arboreum*, William Shilson, pink; *coccineum*, crimson; *Russelianum*, red; *Aucklandi*, pink; *barbatum*, scarlet; *campanulatum*, mauve; *campylocarpum*, yellow; *Roylsi*, a red form of *cinnabarinum*. *Ericas* are also a special feature. These embrace the new white *Veitchii*, *codonoides*, white tinted pink; *australis*, pink. The Mediterranean heaths include *alba*, *glaucus*, *hybrida*, whilst among the dwarf section are *cornea* and its varieties. The *E. cinerea* section—*rosea*, *alba* and *coccinea*—gives a succession of flowers all the year round. At the nursery there is a fine hedge of *Choisya ternata*, which is from 8 to 10 feet high, and 4 to 5 feet through.

ELECTRICITY AND VINE CULTURE

There is apparently no limit to the uses to which electricity can be applied in the service of man. If the same progress is made in developing its uses during the next decade as in the last few years we shall arrive at a very high stage of perfection. According to Mr. George Masee, the well-known scientist at Kew Gardens, electricity is now being successfully used in promoting the growth of the vine, and in destroying its parasitic enemies. The discovery was first made by a cultivator of vines. The method consisted in the arrangement of two series of metallic conductors traversing the roots at a depth of about sixty centimetres, so as not to injure the above ground portion of the vines. The experiment was tried on vines badly infected with phylloxera, and at the end of the first season it was found that most of the insects were killed, and at the finish of the second season not a single living insect could be discovered. In addition to destroying the phylloxera, it was observed that the treated vines grew much more vigorously than a check batch of untreated ones; the quantity and quality of the fruit was also improved in the treated batch. Further experiments will be awaited with interest. Trials are also being conducted in this country in the utilization of electricity for the increase of agricultural crops.

THE ROSE SHOW

Excellent arrangements have been made for the annual rose show which is taking place in the gardens of the Royal Botanic Society, on July 4th, under the auspices of the National Society. The National Rose Society has made rapid strides during the last few years, the membership now numbering 2,000, indicating the increased interest which is being taken in the "Queen of flowers" in this country. We have been passing through a very trying summer, the weather being cold, wet and unsettled. It is satisfactory to find that in spite of this inclemency the rose prospects are very

favorable. Herbert E. Molyneux, a well known rosarian, writes: "It is a good many years since I remember roses looking better than they do at the present time. Such flowers as have been out have come very well, of good shape and quite remarkable in color, and, given a few days' sunshine, or, better still, really hot weather, the rose will soon be in the height of its glory. It is really astonishing how quickly the plants respond to a little heat. Taken on the whole, the weather has not apparently been so unkind as some would appear to think. With a few exceptions, gardeners generally seem to have escaped the late frosts that have in former years played havoc, and although the weather has been unusually cold, it has not been severe enough to do any damage. The fact remains that the plants promise uncommonly well, and I shall be disappointed if we have not in front of us the best rose year we have had for very many (certainly seven or eight) years."

SWEET PEAS

The advent of new aspirants for popularity in the sweet pea world shows no diminution. Two new varieties were shown this week at the Royal Horticultural Hall, and received awards of merit, the exhibitor being Miss H. Hemus. Evelyn Hemus has creamy-white blooms of large size, with rose-colored margins to the petals. Carmine Paradise is of a brilliant carmine tint, of a graceful form, with an erect standard. There is likely to be a good display of novelties at the annual exhibition of the National Sweet Pea Society, in London, in July. A novel sweet pea competition has been arranged in connection with the North Lonsdale Rose Show at Ulverston. It is proposed to offer a gold, silver and a bronze medal for new sweet peas not in commerce. Each new variety will be staged under a number only, and the visitors will be invited to record their votes for the best varieties. The merit of the varieties will then be judged by popular vote, and the medals will be awarded in accordance with the result of the ballot. This is an application of democratic principles to floral displays. The winners will have no cause to complain of any bias or favoritism being shown, seeing that the majority will decide the events.

W. H. Adsett.

Rose Soils

A great variety of soils can be successfully used for the growing of roses, but a moderately heavy loam from a well-rotted sod is perhaps the most favorable. If the right type of soil can not be found, light and heavy soils can be mixed to secure a soil of the desired texture. If it is desired to secure a soil for a forcing house or for potting purposes the sod should be very thoroughly rotted and have incorporated with it about one-sixth to one-eighth of its weight of thoroughly rotted stable manure. Assuming that the proper loam can be found for rose growing, the sod may be cut in the fall and composted with manure, using about one part manure to three parts soil. During the composting period this pile should be turned and mixed several times previous to use, getting it into good even condition.

For the production of good roses, the matter of feed-

ing the plant is of great importance. What to feed, when to feed, and how to feed are questions often asked and for their answer one has to depend largely upon the experience of expert growers and experimenters. While there is a great deal yet to be learned by careful experiment, yet a statement of general practice for the feeding of such plants is of much value. To the mixed material indicated above there should be added a short time before the planting of the rose fine ground steamed bone to serve as a source of phosphoric acid and about one pound muriate of potash to a cubic yard of soil should also be used. It is well to remember that the compost for starting the new plants should not be too rich to start with or the roots of the young plants will be injured. In the production of this class of plants there is much greater damage of overfeeding with nitrogen, than underfeeding, still one must be careful and not go to the other extreme, for if one would have large, healthy, well-formed flowers, there must be an abundance of easily available plant food in the soil. It is more desirable in feeding roses and similar crops to rely upon barnyard manures, supplemented with bone and potash than to attempt to give all of the plant food through the medium of commercial fertilizers, still success can be had even through the latter medium alone.

If the vegetative growth needs stimulating and brightening, and the plants have strong root systems, a liberal feeding of nitrate of soda, say 10 oz. to 50 gallons of water per 100 square feet of area may serve a purpose. If the growth is active and of good color, but rather spindling and short, there is evidence of the need of potash, in which case nitrogen should be avoided. Potash may be supplied by giving an application of sulfate of potash used at the rate of 8 to 12 oz. to 50 gallons of water per 100 square feet at intervals of ten days to two weeks, or, the undissolved sulfate of potash may be sprinkled at the same rate per 100 square feet. This application should be followed for the second and third application, by lime at the rate of 1 lb. to 20 square feet. If the plants are growing well but are not making flower buds, they should be given liberal applications of phosphoric acid in the shape of steamed fine bone, or if it is desired to avoid the nitrogen entirely supply superphosphate at the rate of 1 lb. to 100 sq. feet, followed in a short time by an application of lime as in the case of potash.

If there is reason to believe that a complete plant food is necessary to promote the growth of the plants the following combination of materials is recommended:

¼ lb. Nitrate of Soda,
1 lb. Acid Phosphate,
½ lb. Sulphate of Potash,

for 150 square feet of area. The following formula is recommended by Professor Stewart of Indiana, and is a complete fertilizer for roses:

Superphosphate 130 lbs.
Sulphate of Ammonia..... 13 lbs.
Nitrate of Soda..... 31 lbs.
Sulphate of Potash..... 26 lbs.

He recommends 1 oz. of this mixture to one gallon of water for two square yards of bench surface, once a week as the plants need it. One who pays close attention to the food requirements of their plants as well as to the physical condition of the soil will have much better success than from the general haphazard method so often practiced.

GEO. WRIGHT.

The Formal Garden for Perennials

The set and unnatural present-day method of the formal garden for the planting of herbaceous perennials is a fashion that is decidedly against the beauty, effect or general appearance of anything planted.

Do not misunderstand me. By the set formal gardens I mean one entirely composed of oblongs, squares, and circles, the whole very flat and surrounded by a hedge. I am not condemning formality on any estate, but the set formality in arranging the beds for planting herbaceous plants.

The first and most important thing to consider against above method of planting is the inability of anyone to plant for a natural or good color effect. It is impossible to get this effect when the whole arrangement is unnatural, and as for colors there is sure to be some clashing somewhere when standing at different parts of the estate.

Secondly, in such beds one cannot find suitable spots for the growing of all the desirable varieties of perennials, and the center beds cannot be planted without, to some extent, hiding the back.

Third, there is not the scope to make those beautiful masses of peonies, lilies, iris, larkspurs, etc., that are so necessary for beautiful effects.

It is better to plant the bulk of herbaceous perennials in masses. A number of plans for this kind of planting call for one bed of peonies, one of larkspurs and so on through the list, making a big show in one bed and leaving the rest of the garden without any repetition. It is this want of repetition that is to be condemned.

There are other reasons of smaller matter against above method of planting, but one other that strikes me most forcibly now, with temperature ranging in the nineties, is the awful glaring heat, and the rapidity with which the ground will dry, causing all flowers to come to maturity quickly, and pass away before being fully appreciated.

Now, on the other hand, seven or eight times in every ten, there is ground enough for the architect or planter to work out any reasonable scheme that he or she likes, and I think it would be much better if continuous curving paths and beds were used instead of straight lines and right angles.

Have a bed for the herbaceous plants on one side of the path or both sides if possible, carrying the width of the bed from 8 or 10 feet to 3 feet. Instead of a hedge, the background of these borders should be shrubbery of high-grade, leaving out the kinds that are apt to run underground, as these will cause trouble.

Follow the natural tendency of the ground, curving your path to take in desirable trees and rocks; if there are not any naturally plan to work some in. If a brook or some kind of water can be utilized you have an ideal spot for hardy plants. Do not follow any lines when planting the background, but all the time irregularly widen and narrow the border.

It can readily be seen that by this method you have dry and moist positions as well as sunlight and shade, also the borders are well protected from cold sweeping winds, and the natural protection of snow will drift in and stay longer than anywhere else.

Frederic J. Rea.

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its name. It is our conviction that much well-meant work in this direction falls short of its legitimate effect for lack of organized co-operation. That the greatest good to the greatest number individually and collectively can always be attained by united effort is something that few will be bold enough to question, yet when it comes to putting it into practice there are too many who are ready to say, "Let the other fellow do it."

**More gardens
mean more
business**

No one can fail to notice the remarkable increase in numbers of well-kept gardens about town and suburban homes each successive summer. Not only in number but in character and display of good judgment and cultivated taste do these efforts at home adornment impress us and it is easy to see that the seed of popular education in the art of gardening which has been industriously sown by so many public-spirited agencies is beginning to bear abundant fruit. Dealers in seeds, shrubs, trees and garden implements all assert that the spring season just ended has broken the record as to the sale of these things. It requires no argument to show that the direct beneficiaries from the campaign for more beautiful homes are the florist, seedman and nurseryman. This being so, why do we not see those engaged in these industries lined up in the front rank of every movement to diffuse a love for and a proper knowledge of home gardening?

The consideration of the topic above alluded to brings to mind the approaching convention of the Society of American Florists and Ornamental Horticulturists at Philadelphia. The expressed sentiments of the most active spirits in shaping the society's policy at the present time indicate a wholesome appreciation of the situation and the glorious opportunity which has been brought to the very door of the American horticulturist. In its earlier years the S. A. F., with rare tact and patience, took up minor questions concerning the ordinary routine of the florist, groping in the dark, as it were, with practically no generally accessible avenue through which the fragments of dearly-bought experience of the individual might be gathered up, sifted down and incorporated into well-matured rules of practice in the fundamentals of his work. There were selfish doubters in abundance who vehemently condemned the door-opening which the society's policy inaugurated, but where shall we find one to-day who would like to see the florist trade put back to the incoherent conditions that prevailed when the S. A. F. began its campaign of education in first principles? Considering the rich accumulation of practical instruction stored up in the literature of the past twenty-two years, and its wide dissemination by means of the Society publications and through the trade press, the Society shows commendable judgment in devoting its time and effort to broader topics than the minute details of every-day routine. Biggest and best and fullest of promise for the future welfare of every horticultural avocation and allied trades is the question of developing the popular appetite for the products of these industries through school gardens and other means. Having done its part in developing the great floricultural industry it can now turn its attention to the task of securing for those industries that universal popular favor and support which they so well merit. And, in so doing, the Society should have the zealous help of every individual whose interests it thus serves.

Among all its pleasant responsibilities that are most highly esteemed by HORTICULTURE together is the privilege of joining hands with the workers in any movement for the uplifting and advancement of the profession from which it takes

AFTER ADJOURNMENT.

A colored plate of *Laelio-Cattleya* *Andromeda* appears with the July 6th issue of *The Garden*. It shows a spike of flowers somewhat lacking in size but making up for this deficiency in its splendid yellow color. The parentage is given as *Laelia flava* x *Cattleya aurea*.

Commenting on the remarkable sporting proclivities of sweet pea Countess Spencer, a writer in the *Gardeners' Chronicle* expresses the opinion that, owing to this variety's possessing an open keel and protruding stigma cross-pollination may be effected by other than human agency and that this fact may explain some of the peculiar variations in the progeny from plants of true type.

Certain writers in English horticultural journals are deprecating the trend towards trade unionism among the Kew men. A remark of the late director of Kew garden to the effect that "the Kew certificate is being regarded as a danger signal rather than a recommendation" is significant. In this country we have always looked upon the Kew graduate as a man worthy of the highest preferment and if it is true that those who are enjoying the unique advantages for acquiring horticultural knowledge at this time-honored institution are influenced by any sentiment other than the desire to learn and practice then surely must the horticultural world be a heavy loser.

OUR FEATHERED FRIENDS.

Editor of HORTICULTURE:

Dear Sir:—Now that you have started a campaign in favor of our beautiful feathered friends, I feel that every one who loves the life of nature and nature's creatures ought to help you all he or she can; and I know that once people are aroused on a subject as important as this, they will get at the bottom of the trouble and strive to right this great wrong which is being done the birds. No one has a better chance to help in this work than the florist, the gardener, the park man and the householder; but anyone who is out of doors or who has out-of-door interests can be of great service too, for the birds come under the observation of, and call for protection from, all these people.

The Causes of Bird Depletion.

A few words as to the causes of the bird depletion will not be amiss, and a few suggestions as to remedies will help those who wish to give this good work their support. I have already mentioned in another issue the Italian and his work as among the chief causes of bird destruction, but an equally serious one lies at our own doors in the keeping of the household cat. I do not mean to say that every cat catches birds, but every cat will catch adult birds or their young if it has an opportunity, and this is seldom lacking on a place where there are trees and bushes or that is near open fields. It is perfectly safe to say that the average pet cat catches ten birds in a season, and the homeless cat from 50 to 200 birds. Did you ever watch a cat at work in the fields? Most people believe that it is after mice, but while the cat might catch a mouse if it came her way, this

is not her object. Notice the birds and you will see by their frightened motions that her primary motive is to catch young birds. When in the fields the young of the bobolink, ground sparrow, quail and other ground nesting birds suffer particularly from the ravages of the cat.

Then, again, small boys—and not always the very small boys—have a habit of bird-nesting simply for the pure delight of seeing the distress caused by their wanton acts. I have seen a good deal of this work where whole nests were broken up and destroyed not for egg collecting, which, by the way, should be discouraged, but just for the sake of destruction. Certain snakes are very fond of birds' eggs and also of the young birds; so, too, are skunks, weasels, and red squirrels; thus the birds have innumerable enemies to contend against in addition to man.

The Remedies.

Now for the remedies. The Italian should be dealt with by law. A few good examples of punishment in a neighborhood will often prove enough to remedy this evil. There are now laws that compel an unnaturalized person to pay a license of \$25.00 for carrying a gun; this has forced the Italian to use bird-lime and nets so that he needs more careful watching than before, but if every one would make sure that no such methods are being practiced in his neighborhood we could soon change this state of affairs.

The cat is a more difficult problem. We might say, however, destroy all homeless and surplus cats and take good care of the one or two that you keep so that they will stay at home and let the birds alone. During the hatching season of robins, bluebirds, etc., it is well to keep the cat shut up for a week or so, until the birds have learned to fly; by this means many of the young birds will be saved. The cat can be made to wear a loud-ringing bell while the birds are nesting, thus giving warning before it can get to them. To prevent a cat climbing trees and robbing the birds' nests, cut its claws well off.

Where we can ultimately, though, do more good than along any other line is in the education of our children, and the young people of both the city and country. Teach them to look on the birds as their friends, to study their habits and learn the economic relation of these beautiful and useful creatures to the whole system of nature. Instil into your boy or girl a respect for these feathered friends and he or she in turn will carry this respect into the fields and woods, and there find peace, happiness and joy in, and usefulness for, these wild creatures of the air which man has so abused.

WILFRID WHEELER.

SOLD OUT.

Niagara Falls, N. Y., July 17, 1907.
HORTICULTURE Pub. Co.

Gentlemen:—Please discontinue our adv. for Begonias which you inserted last week. The whole lot was taken by one firm, and to date it is necessary that we return cheques amounting to nearly \$200.00.

We are greatly pleased with the adv., although we regret that we have to return cheques on hand.

Very truly yours,

E. A. BUTLER & SON.

THE MISSOURI STATE BOARD OF HORTICULTURE.

Editor HORTICULTURE.

Dear Sir:—

It is the desire of the new board in charge of the horticultural work in Missouri to maintain the close relations in co-operative work and fraternal feeling that has been enjoyed for so many years by the Missouri State Horticultural Society with kindred institutions throughout the country, and if possible come in closer touch with horticultural societies and experiment stations in all the states, also all the fruit growers in Missouri. To this end will you kindly publish in your next issue this announcement:

It became necessary to reorganize the Missouri State Society, as the semi-annual appropriations by the State could not be legally made under the constitution, and the State Board of Horticulture was created by an act of the Legislature of 1907. The members of the board are appointed by the Governor instead of being elected as by the old society. The new board is: C. H. Dutcher, Warrensburg, president; N. F. Murray, Oregon, first vice-president; J. H. Christian, Neosho, second vice-president; T. H. Todd, New Franklin, treasurer; W. P. Stark, Louisiana and R. M. Hitt, Koshkanong. C. H. Dutcher was re-elected president of the old society at the last annual meeting and was elected president of the new board. Geo. T. Tippin was elected secretary at the last annual meeting and was also elected secretary of the new board.

It is the desire of the new board to extend horticultural work and interest in every part of the State and to stand shoulder to shoulder with the horticultural societies and institutions of our sister States in advancing this great work and industry. The office of the secretary is Springfield and all correspondence will receive prompt attention.

Very truly yours,

GEO. T. TIPPIN, Secy.

Kochia Scoparia.

I note your inquiry in current issue of HORTICULTURE regarding *Kochia scoparia* and *K. trichophylla*. I have grown the two side by side and have been unable to detect any difference. The appearance of the seed may mislead some as it is covered with a star-shaped hull which some growers, especially the foreign ones, leave intact. I presume the names Mexican Fire Plant and Ball of Fire are originations of the fertile imaginations of catch-penny advertisers. However, it is a beautiful plant and worthy of general cultivation as it grows rapidly and can be trimmed to any form without injuring it in the least.

Yours very truly,

P. K. NOTT.

Watervliet, N. Y.

MOVEMENTS OF GARDENERS.

Wm. H. Witte has taken a position with Jesse P. King, Mt. Airy, Md.

John Larsson, formerly assistant gardener at the Profile Gardens, Franconia, N. H., is now on the Thomas Plant estate at W. Manchester, Mass.

NEWS OF THE CLUBS AND SOCIETIES

NORTH SHORE HORTICULTURAL SOCIETY.

The annual rose show of this society was held July 10th and 11th, in a tent on the grounds of the Essex County Club, Manchester, Mass. The orchid exhibit of Lager & Hurrell was one of the features of the show and included cattleyas, laelias, oncidiums and vandas. Blue Hill Nurseries staged lilioms in variety and *Alstroemeria aurantiaca*. H. A. Dreer showed *Lobelia Kathleen Mallard* and *Nephrolepis Amerpohlil*.

The J. H. Troy cup offered for the best collection of roses was won for the third time by Fred Brasch, gardener to Mrs. James McMillan and becomes his property. The silver cup offered by Connolly Bros. for the best group of foliage and flowering plants was won by Eric Wetterlow, gardener to Mrs. Lester Leland. The Julius Heurlin cup offered for the best collection of herbaceous perennials was won for the second time by William Swan, gardener to Mr. R. C. Hooper. This cup has to be won twice. James Salter, gardener to Mrs. Philip Dexter won the silver cup offered by Schlegel & Fottler for the best collection of vegetables, and William Irwin, gardener to Mrs. Gordon Abbott, won the first prize for best collection of vegetables, offered by Morley & Flatley Co.

The judges were Messrs. E. O. Orpet, Joseph Clark, Jr., and James McGregor.

The committee in charge of the show consisted of John Baker, Thos. Jack, Walter E. Allen, William Till, James Salter, secretary.

WILLIAM TILL.

ST. LOUIS FLORIST CLUB.

A very interesting and well attended meeting was held last Thursday afternoon. After all the regular opening work had been attended to, the several committees made their reports. W. C. Smith reported for the trustees that they had made all arrangements for the picnic to be held next Thursday at Romona Park. William C. Young, State vice-president of the S. A. F., reported on transportation to Philadelphia, after which the members voted to go by the Pennsylvania R. R. Aug. 18th arriving in the convention city Monday at 3 P. M. The fare for the round trip will be \$25.00, which includes a visit to the Jamestown Exposition, with return by way of Washington, D. C., by boat. Mr. Adolph Brix, a retailer, was elected to membership in the club.

Officers for the ensuing year were nominated as follows: President—W. C. Young, John Cannon and John Steidle; vice-president—George Augermüller and Edwin Denker; secretary—A. J. Bentzen, treasurer—H. C. Irish, trustee, three years—Y. H. Pring and Charles Schoenle. The election will take place at the August meeting, when other nominations can be made.

President Irish announced that an invitation had been extended by Director Wm. Trelease to have the next regular meeting at the Missouri Botanical Garden, which was accepted. This meeting will be on Thursday afternoon, August 8th.

The question box contained some

very choice queries. Information as to dahlia culture lead in the discussions.

AMERICAN ROSE SOCIETY.

The executive committee of the American Rose Society will hold a meeting at the Hotel Martinique, New York, on July 24th, to prepare a preliminary schedule for the coming exhibition in Chicago, 1908.

There are prizes already offered by W. A. Manda, Orange, N. J., \$25.00— and \$25.00 for "La Detroit" and special prizes of \$200.00 and \$100.00 for plants in pots. President Robert Simpson is planning for a European trip of some extent, to leave this country on the last of the month. At this meeting a certificate for new varieties will be decided upon, also a certificate for life membership.

In some of the Hudson River towns the Crimson Ramblers have been used the past few years as piazza plants and the spread of this beautiful flower has in some places made a marked impression upon the value of the rose as an outdoor decorative plant.

BENJ. HAMMOND, Secretary.

Fishkill-on-Hudson, N. Y.

NEW BEDFORD HORTICULTURAL SOCIETY.

At a special meeting of the New Bedford Horticultural Society, on last Tuesday evening, it was decided to hold a horticultural exhibition in Odd Fellows Hall on August 27, 28 and 29, when the city of New Bedford will devote a week to rejoicing over the visits to the old home of her wandering children.

It was decided to offer a silver and a bronze medal for the best floral display in the trades' parade.

James Garthly, of Fairhaven, exhibited some superb specimens of stocks—Beauty of Nice and Farquhar's Giant.

NEW LONDON COUNTY HORTICULTURAL SOCIETY.

The exhibition at Norwich, Conn., by this society was a success in point of size and excellence. Otto Ernst, S. J. Reuter, the Geduldig estate were among the principal commercial exhibitors of plants and flowers. J. P. Sorenson showed fine Hamburg grapes and cucumbers. The private estates of New London and adjacent places were well represented.

CLUB AND SOCIETY NOTES.

The eighth annual meeting of the Texas Nurserymen's Association will be held at College Station, August 23, 24, 25.

The next meeting of the Albany Florists' Club will be held at Slingerlands, N. Y., with Fred Goldring, on August 1.

The Utica Florists' Club, N. Y., held its meeting on July 11 at Ilion with Theodore Schesch, who entertained them at the Beethoven Maennerchor Hall with a turkey dinner.

The Elberon Horticultural Society will hold their second annual flower show in the New Casino, Long Branch, N. J., on July 24 and 25. The prize list is now ready and includes 36 prizes.

NEWPORT HORTICULTURAL SOCIETY.

The rose show of the Newport Horticultural Society was held on Tuesday and Wednesday, July 9th and 10th in Masonic Hall. It was successful as a rose show and as an exhibition of plants, although it has usually been the case that no special effort was made to make the June show as it has been called anything much but a rose and strawberry show. This year strawberries might just as well not have been mentioned in the schedule for all that the show was helped by them, in fact there was only one exhibit but it was a good one from Samuel Speers. Roses were much later this year than for many years past hence the cause of the postponement of the show from June 26 to the date on which it came off.

The center of interest this year at the show was the class for a collection of roses for prizes offered by S. G. Harris, Tarrytown, N. Y. For this prize there were three exhibits staged, that of James Robertson was far ahead of the other two both as a collection and in quality of blooms. Hugh Williamson took second and Alex. Adam third. In the class for a display of roses Colin Robertson was easily first and John Marshall, second.

In the smaller classes for roses James and Colin Robertson were pretty nearly even in honors with the advantage slightly in favor of the former who had on exhibition as fine blooms as were ever seen in Newport. The plant classes were fairly well contested all through and the class for table plants keenly. There were four exhibits staged in this class and the judges had hard work to decide which were the best three.

The groups of plants were effectively done especially those of Colin Robertson the winner in both classes for groups.

Crotons and dracaenas were well shown; palms were excellent in color and of immense size. Specimen ferns were in good shape; *Nephrolepis Whitmanii* took first and second; this fern also took first in a fern dish. Made up work of cut flowers was not largely in evidence. F. L. Zeigler had a show basket of Jack roses which took first in its class.

Henry A. Dreer had on exhibition the new double *Lobelia Kathleen Mallard*. This will without any doubt catch on quickly as it is a thing nearly every one can make use of one way or another, it will be good for bedding and good also as a pot plant. The same firm had on exhibition *Nephrolepis Todeaoides* and *N. Amerpohlil*, both distinct and possessed of superior merit and attractiveness.

Julius Roehrs has as usual a catching display of decorative foliage plants. This firm had also a number of good plants of *Lobelia Kathleen Mallard* so that it will be seen that more than one firm has stock of this novelty to offer.

Messrs. Lager & Hurrell had a collection of orchids which attracted

The Dreer trial grounds at Riverton are always interesting to the visitor and are especially so during the summer when the perennials give a constant succession of daily variety. The collection embraces over two thousand species and varieties.

Lineariloba is a good addition to the callirhoe family. It has delicate light rose flowers constantly in bloom and makes a fine companion for the old favorite *involucrata*.

In the bergamots the variety Cambridge Scarlet is noticeable for its handsome crimson-scarlet flowers. This variety makes a fine show during July and August.

The new strain of *Pentstemon*

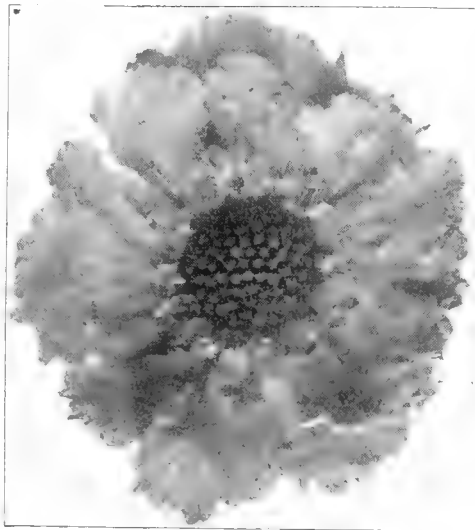
SOME NEW HARDY PERENNIALS.

called *Sensation* is truly a sensation in the variety, size, and loveliness of the flowers which run through crimson, purple, lilac, rose and cherry, most of them beautifully marked and sprinkled. This rivals the hardy phlox as a compact and showy bedding plant. Unfortunately it is not quite hardy here and must be given some protection during winter.

The bell flowers are a large family and well represented here although we did not observe any that were especially new or striking. The variety *Alliarifolia* with its nodding bells is among the most effective. *Lactiflora* is also a good one with large spikes of flowers white tinted blue. Among the blues the variety *trachelium* shows up well. The *platycodons* are closely allied to this family and form an attractive patch close by.

Scabiosa caucasica, also not new, is one of the most charming of hardy perennials its lovely lavender flowers being peculiarly beautiful. Besides this it has fine long stems and blooms all summer. In this connection we can recommend another good one namely *Physostegia virginica grandiflora alba*, a fine mouth filling name truly but a beautiful plant notwithstanding this tough handicap. The spikes of pure white tubular flowers might not inaptly be likened to a giant heather.

There are number of new ones among the Mule Pinks this year. *Delicata* is a soft rose and beautifully fringed; *Comet*, a rosy crimson—a fine bright flower; *Superba*, a pale pink with maroon center; *White Reserve*, white—nicely fringed; but the gem of them all is still the older



Scabiosa caucasica.

variety *Napoleon III* whose brilliant crimson crest is still to us "a thing of beauty and a joy for ever."

Although *Romneya Coulteri* and *Delphinium formosum* are not new we cannot refrain from an appreciative word for these two fine subjects as we pass then on our way to the tritoma field where one or two of the new ones have already commenced to flower. The most striking of this year's introductions is *Erecta* which is unique in having the florets of the lower half of the spike standing erect. *Saundersi* is a massive flower of a deep rich color. We hope to say something of the merits of the thirty or forty other varieties of tritomas at another time. It is too early for most of them yet.

The much-heralded *Astilbe Davidi* was in bloom. While it is a good thing we think it has been overpraised. The color is not clear. *Venusta* shows up brighter and better.

G. C. WATSON.



Physostegia virginica.

much attention especially of those of the four hundred visiting the exhibition.

Rose Show Principal Awards.

Class 1. palms and potted plants. 1st, Colin Robertson, gard. for Mrs. Robert Goelet; 2nd, James Boyd, gard. for Mrs. Astor.

Class 2. Palms, ferns and flowering plants. 1st, Colin Robertson; 2nd, James Boyd.

Class 3. Table of Decorative foliage plants. 1st, David McIntosh, gard. for Mrs. Bell; 2nd, C. D. Stark, gard. for Mrs. Colliard; 3rd, James Boyd.

Class 4. Display of orchids. 1st, C. D. Stark.

Class 5. Specimen *Arauc.* 1st, Colin Robertson; 2nd, C. D. Stark.

Class 6. Specimen *Kentia*. 1st, Colin Robertson; 2nd, C. D. Stark.

Class 7. Any species palm. 1st, C. Robertson; 2nd, C. D. Stark; 3rd, F. J. Zeigler.

Class 8. Specimen fern. 1st, C. Robertson; 2nd, James Robertson, gardener for Mrs. Richardson; 3rd, James Boyd.

Class 9. Rex Begonias. 1st, James Boyd.

Class 10. 6 Gloxinias. 1st, Paul Volquardson, gardener for Mrs. Wm. G. Weld; 2nd, James Robertson.

Class 11. 6 Crotons. 1st, Colin Robertson; 2nd, David McIntosh.

Class 12. 6 Dracaenas. 1st, David McIntosh; 2nd, C. D. Stark; 3rd, James Boyd.

Class 13. 6 Tuberous Begonias. 1st, Paul Volquardson, 2nd, John T. Allen, gardener for Mrs. John R. Drexel.

Class 14. Specimen *Pandanus*. 1st, C. D. Stark; 2nd, James Boyd; 3rd, David McIntosh.

Class 15. Dish of ferns. 1st, James Robertson.

Class 16. Dish mixed ferns. 1st, James Robertson; 2nd, F. L. Zeigler.

Class 17. Dish of foliage plants. 1st, C. D. Stark; 2nd, John Marshall, gardener for Hon. Perry Belmont.

Class 18. Decorative foliage plants, prizes by H. A. Dreer Co. 1st, David McIntosh; 2nd, C. D. Stark.

Class 19. Collection of out-door roses. 1st, James Robertson; 2nd, Hugh Williamson, gardener for W. W. Astor; 3rd, Alex. Adam, gardener for Alfred G. Vanderbilt.

Class 20. Display of roses. 1st, Colin Robertson; 2nd, John Marshall.

Class 21. Fancy basket of roses. 1st, F. L. Zeigler; 2nd, John Marshall.

Class 23. 12 varieties H. P. roses. 1st, Colin Robertson.

Class 24. 6 varieties H. P. roses. 1st, Colin Robertson.

Class 25. 12 H. P. roses pink. 1st, James Robertson; 2nd, Colin Robertson; 3rd, John Marshall.

Class 26. Red H. P. roses. 1st, Colin Robertson.

Class 27. 12 white H. P. roses. 1st, James Robertson (with Frau Karl Druschki).

Class 28. 12 H. P. roses, any varieties. 1st, James Robertson; 2nd, Colin Robertson; 3rd, John Marshall.

Class 30. 12 Hybrid tea roses. 1st, John Marshall; 2nd, James Robertson.

Class 31. 12 Tea roses. 1st, Colin Robertson.

Class 32. Basket of roses by gardeners.

assistants. 1st, Angus Allen; 2nd, H. G. Christian; 3d, Wm. Fricker.

Class 35. Bunch black grapes. 1st, David McIntosh.

Class 37. 6 nectarines. 1st, James Robertson; 2nd, John Marshall.

Class 40. Dish strawberries (Marshall). 1st, Samuel Speers, gardener for Prof. Greene.

Class 42. Dish strawberries (Brandywine). 1st, Samuel Speers.

Class 43. 12 tomatoes. 1st, James Boyd; 2nd, Stewart Ritchie.

Class 47. Collection of vegetables. 1st, Stewart Ritchie; 2nd, James Robertson.

James McLeish exhibited grapes and nectarines of good quality but not in competition.

Stewart Ritchie exhibited carnations and sweet peas.

John Marshall, carnations and *Dianthus barbatus*.

Paul Volquardson, roses, *Gruss an Zabern* and *Trier*; was awarded bronze medal for former and certificate for the other. The same exhibitor had a vase of superb Frau Karl Druschki.

John T. Allen exhibited a fine lot of tuberous begonias.

C. D. Stark, cypripediums and fancy colons.

Visitors included Messrs. S. G. Harris, John S. Hay, Thomas Knight and George H. Struck.

The judges were John T. Allen, Alex. MacLellan and Daniel Coughlan.

During the forenoon of the first day the judges, visitors, and others were entertained with dinner at the Perry House. D. M.

TWO ANDEAN ORCHIDS.

For beauty, variety, and natural interest combined the orchids surpass every other family of flowering plants. No other group approaches them in brilliant, singular and various coloring, in exquisite, graceful or sculptural, or fantastic form of flower, in peculiarly rare and delicate beauty of our native kinds—as *Arethusa*, *Calypso*, *Calopogon*—or in the remarkable relations which the flower has established with the insect world. Only two other great natural families equal this in number of species, for the orchids of the globe embrace some seven or eight thousand kinds already described and named by botanists, and are thus more numerous than all the species of flowering plants known to Linnaeus. They inhabit all quarters of the globe from Alaska, Iceland and Siberia to the equator and beyond to antipodal cold; but they are most at home in the hot and damp tropical belt, especially in the rain forests of tropical mountain ranges. Here they diversify themselves endlessly and display to perfection that remarkable adaptability which to some observers seems akin to our own rationality.

Charms of the Small Flowered Orchids.

The popularity of orchids in fine greenhouse collections is due to floral beauty. Few pursuits can afford the lover of rare and beautiful plants greater delight than the collection and cultivation of vandas, dendrobiums, calanthes, odontoglossums, etc. Here and there, however, we find one who extends his search beyond the large-flowered forms to those which are smaller and perhaps rarer, and exert a different charm. To such a plant lover the unexpected and curious is apt to appeal strongly, especially if joined with winning floral qualities. Consequently, some large collections include not only showy species, like the cattleyas, but those of more lowly station and of less fame with the florist, known and admired chiefly by true orchid amateurs,—among which are the *Masdevallias*. The plants are small, some of them tiny, and tufted. They are native of South America and are hard to grow well in our climate, since they naturally inhabit the forests and rocks of the Andes, where the temperature in the open sun is very high, while shade leads to rapid cooling and the night temperature may be comparatively low, and where the mountain winds give good aeration at all times—conditions quite the reverse of greenhouse climate during our American summer. The flowers are in a few species brilliant, in many delicately beautiful, and in all very curiously formed. The number of species is large. The activity of the flower in two of the species—the subject of the present sketch—is most remarkable.

Where *Masdevallias* Thrive.

Masdevallia muscosa and *M. Xiphères* have recently bloomed in the greenhouse at North Easton and I have had an opportunity to watch their behavior. In their native Columbian forests they grow upon limbs of trees, on rocks, and sometimes among the mosses of the forest floor. Frequent rains keep them well-watered in the wet season, even when they are



seated upon naked treetrunks or barren rocks, while at all seasons of the year the nightly dew-falls are copious. The roots are spongy and rapidly soak up water-supplies when available, while the leaves are rather thick and act as reservoirs. There is thus no occasion for employing that remarkable power popularly ascribed to tree-dwelling orchids, of condensing and absorbing water vapor from the air—a power which, in fact, they do not possess. In nature only the rains and dews make it possible for “air plants” to thrive.

The Mossy *Masdevallia* (*Masdevallia muscosa*) is so named I suppose for the shaggy and moss-like flower-stalks. The flowers are golden, their stalks light green, the foliage is dark green, and the little plants must be particularly pretty as they stand in the sun in nooks of the lava-walls of mountain ravines, 6000 to 8000 feet up on the slopes of the Andes. The three sepals are joined at the base into a triangular chalice, which includes the two narrow petals and the column. The lip is pendant from a point within the lower margin. It has a thin high crest running lengthwise, and an expanded extremity beset with tufts of maroon hairs. If now, when the flower is open, the crest of the lip is touched ever so slightly, even

stroked with a hair, it begins instantly to close up, first slowly, but after two or three seconds flying up with a sudden snap. The shut lip exactly closes the opening of the triangular cup, as shown in the upper flower of the drawing, except at the top, where the ends of the petals and the column protrude somewhat, and moreover leave a small opening. After a period of twenty minutes more or less, if the lip is not further excited it begins to open and slowly falls to its former position, when it is ready to be sprung again. I set the lip of one flower off repeatedly during a day or two, and it lost none of its sensitiveness; in fact it recovered rather more quickly at the end of this time.

A variety of stimuli besides touch were found to cause the movement. On taking the plant out of doors, into air of about 46 Fah., the lip promptly closed. A hot needle brought near the cushion had the same effect. Most curious of all, about an hour after nightfall the flower closed (although darkening during the day was ineffective), and remained so until an hour or more before light next morning, when it opened of its own accord.

Fertilization by Means of Insects.

Only the ridge or crest of the lip is sensitive and must be touched, and

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in the wild state this can generally happen only when an insect has alighted upon the lip itself. By the spasmodic motion the visitor is raised and then hurled forward into the cup. When he picks himself up he finds that he is imprisoned in a chamber with translucent golden walls, veined with red. Whether the elegance of this prison appeals to him or not must be left to comparative psychology. Escape is suggested by light from a small aperture above him; and as he crawls upward and out between the petals and end of column he almost unavoidably removes the pollen masses, which he carries to the next flower. The stigma of the next flower receives the pollen of the first as the insect again makes his escape, and so cross-fertilization is secured.

The stimulus leading to movement is received by the sensitive ridge of the lip; but the motion is executed by a hinge situated at a little distance. There must therefore be transmission of the stimulus through the tissue of the lip. This is comparable to the transmission of sense-impressions and impulse through nerves in animals; though in the plant there are no nerves, as a microscopic examination shows. Yet the transmission is very rapid. The movement is actually caused by the contraction of masses of cells on the upper surface of the hinge, which play the part of a muscle. The analogy between plant and animal physiology is here very plain.

The reception of stimulus with transmission of the effect through the tissues and resulting motion of parts is common in plants, though since the movements are usually too slow to catch the eye, the fact is not generally suspected by those who have not paid particular attention to the matter.

The second plant to bloom is a very nearly related species, with reddish instead of yellow flowers, *Masdevallia Xiphères*, also from Columbia. Its power of movement might be predicted from the similarity of the bloom to that of its congener. Yet so far as I know its actual possession of the faculty has not heretofore been reported, probably because the plant is rare in cultivation. It behaves precisely like its relative. The ridge alone is sensitive, and the lip is quite as quick in its motions. The flower-stalk is declined, however, and the flower being almost inverted, the imprisoned insect has only to walk down

and out, effecting the pollination of the flower by passing over the stigma, as in the preceding species.



Ames Botanical Laboratory,
N. Easton, Mass.

A HYBRID IRIS.

This hybrid Iris is the outcome of crossing *Iris paradoxa* and *Iris sambucina*, hence the name *para-cina*. It was one of the late Sir Michael Foster's hybrids, but has come into the hands of Messrs. Barr and Sons, King Street, Covent Garden, for distribution. The standards are dark violet, and the white falls are heavily veined. It received an award of merit at the meeting of the Royal Horticultural Society on June 11th.

Messrs. Barr, we are informed, have a number of plants of this pretty new hybrid. In the *Oncocyclus* species, *I. paradoxa*, the falls are very narrow, while the standards are large (hence its name of *paradoxa*, referring to these differences). In *sambucina*, a bearded species native of Central Europe and Asia Minor, the fall is well balanced and large.—*Journal of Horticulture*.

PUBLICATIONS RECEIVED.

Part II of the Transactions of the Massachusetts Horticultural Society for the year 1906 has come to hand. As usual it contains interesting reports of the various exhibition committees, etc., together with accounts of the progress of the school garden movement in Massachusetts accompanied by illustrations of some of the children's gardening work.

The Year Book of the Department of Agriculture for 1906 which has just come to hand is a volume of over 700 pages and compares favorably with any of its predecessors in the value of its contents. It is copiously illustrated, the frontispiece being a portrait of the late Henry Cullen Adams of Wisconsin. There are several colored plates of new fruits. Much space is given to the problems connected with injurious insects and, in connection with some recent utterances in HORTICULTURE, it is especially interesting to learn that up to date 57 species of birds have been found to feed upon the various scale insects.

JUST TO HAND

C. Trianae, Den. Phalaenopsis, D. Wardianum, Vanda Coerulea, V. Kimballiana, V. Amesiana, L. Anceps, L. Albida, Epidendrum Vittelinum, Cattleya citrina, Odonto. Rossii Majus
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NEW YORK

ROSE NOTES.

Marco, a new Wichuraiana rose, belongs to the Tea-scented section, is of good form and double, orange-red in color. M. Guillot is the originator.

Rosa rugosa Roseraie de L'Hay, semi double, deep brick-red, raised by Graverian in 1902 and disseminated by Cochet is well recommended as a hedge or border plant by the Gardeners' Chronicle. It is said to bloom abundantly throughout the summer.

Rose Paul's Carmine Pillar has made a new record for itself this season, coming through the hardest winter on record, in the vicinity of Boston with but few scars and producing a remarkable crop of bloom which extended over most of June and early July.

Whatever may or may not be said favorable to the so-called baby Rambler as an Eastern forcing plant, certain it is that it cuts a sorry figure with its lifeless color even at its best when in the garden contiguous to Crimson Rambler, and when the flowers have become old their habit of persistence and fading out on the plant gives them a very unattractive appearance.

Wellesley proves to be one of the hardiest as well as one of the most profuse flowering of garden roses adapted to the climate of Massachusetts. It withstood the severe winter of 1906-7 in even better shape than did Killarney, which is already recognized as a gem among ever-blooming hardy roses. Wellesley is a very rapid grower, and flowers follow one another in rapid succession all through the summer.

SHRUB CHAT.

A writer in The Garden speaks very highly of Rose Hugonis, a species of which seeds were received from China at Kew. It is described as a shapely bush of at least six feet in height and bearing yellow flowers two inches in diameter. This species may prove valuable as a pollen bearer.

Among the flowering shrubs seriously injured by the severe weather of the past winter may be mentioned Clematis montana, which last year bore a profusion of flowers, but this year none, not only the buds but much of the wood being killed outright. With this little demonstration of its unreliability under certain conditions, Clematis montana is yet handsome enough when it does come to make it well worthy of a place among the desirable climbing shrubs.

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Window	
Boxes	1.25
Arm Chairs	3.25
Tubs -	1.25
Vases with	
Stands	2.75

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BOSTON HEAD LETTUCE.

The illustrations used here are from pictures taken on the market garden farm of Dell Titus, the largest grower and dealer in Boston Head lettuce, in



the garden district of Irondequoit, N. Y. Mr. Titus has methods of preparing and of applying water to the soil entirely his own, and thereby manages to keep his plants fairly free from disease. In the case of the greenhouse crop, as the lettuce is removed pretty well toward spring, but long before it would be safe to plant cucumbers out-



doors, the beds are then planted with cucumbers, which also find a ready sale on the Rochester market, being, of course, ready for market weeks before the first outdoor product comes in. As to the outdoor crop, the land here is required to produce three crops a season.

H. R. PEACHEY.

CATALOGUES RECEIVED.

C. Betscher, Canal Dover, O. Special list of Peonies. All guaranteed to be true to name.

Micell's "Special Advance" Wholesale Bulb Catalogue.—H. F. Micell Co., 1018 Market Street, Philadelphia. With the catalogue goes a special invitation to visit the large model seed and bulb establishment of this company. A feature of the Micell Company's business is its special attention to the florist trade.

Three roses for a penny and half a pineapple for a penny are quoted as street seller prices for the last week of June in London.

NEW BABY SMILAX

(Myrsiphyllum Asparagoides Myrtifolia)

The old well-known Smilax has a rival in this new variety.

It is of a delicate and handsome appearance; the individual leaves are only one-half as large as the regular Smilax, and as graceful as the Maiden Hair Fern.

It is advisable to allow each plant several strands of twine on which to run. It is a very rapid grower, and produces many more shoots than the old variety of Smilax.

NEW CROP JUST RECEIVED:

25 seeds	.....\$ .75
50 seeds	..... 1.25
100 seeds	..... 2.25
250 seeds	..... 5.00
500 seeds	..... 9.50
1000 seeds	..... 18.00

Also new crop Pansy, Myosotis, Daisy, Cineraria, Primula and all other seasonable seeds.

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of Bulbs for Florists

HENRY F. MICHELL CO.

1018 Market Street
PHILADELPHIA - - PA.

OUR FRONTISPIECE.

The subject of our frontispiece this week is a very complete and compact range of iron frame houses of Lord & Burnham construction. The large house in the rear is the palm conservatory. The large curvilinear house on the left is devoted to grapes and peaches, and the corresponding one on the right to fruits in pots. The carnation house appears between these two, while further back are houses with compartments for orchids, ferns, vegetables, etc.

The plant is considered a model in all respects. It is on the estate of Miss E. J. Clark, Pomfret, Mass. It is presided over by John Ash, well known to frequenters of the Massachusetts Horticultural Society's exhibitions in Boston as an expert grape grower and winner of first prizes in many of the flower and fancy fruit classes.

ALL GIANTS are used in mixing our PANSY SEED

"BODDINGTON'S CHALLENGE" mixture contains all the finest Giant strains—of the leading Pansy Specialists in the world—the Giant self colors, the Giant striped and margined, and the Giant blotched—all carefully mixed in proportion—the finest that money can buy—the finest your money can buy. A florist who has grown it, said "Why don't you call it *Defiance!*"

Trade pkt. 75c, 1-4 oz. \$1.50, 1-2 oz. \$2.75, oz. \$5.00. New crop ready July.

... Order Now ...

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CELERY PLANTS

Golden Self-Blanching, Giant Pascal, White Plume, Winter Queen, \$1.25 per 1000. Borcole, \$1 per 1000. Brussels Sprouts, \$1 per 1000. Leek, \$1 per 1000.

CABBAGES

Early and Late Flat Dutch, Succession, Savoy, \$1.00 per 1000. Cash with order, please.

SAMUEL W. SHANKLIN.

White Marsh, Md.

INTENDING VISITORS TO OUR SWEET PEA EXHIBITION at Marblehead Saturday, July 27th, 1907

Should notify us at once as we are making arrangements to engage a Special Car leaving Scollay Square, Boston, to accommodate those who would start from this point.

W. W. RAWSON & CO., 5 Union St., Boston, Mass.

ZIRNGIEBEL'S GIANT PANSIES *Fresh Crop Now Ready*

Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNGIEBEL. None genuine unless sold by me.

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GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.
GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

Christmas Flowering Sweet Pea Seed

DIRECT FROM ORIGINATOR.

Christmas Pink, Florence Denzer, white 1-4 lb.
75c; 1 lb. \$2.00.

Mrs. E. Wild, new carmine red, 2 oz. 75c; 1-4 lb.
\$1.50

These popular Florists' Sweet Peas have been grown by

OVER 3000 FLORISTS

all over the world to the best satisfaction of the most critical growers, and

HAVE NO EQUAL.

Also 10 New Varieties offered for the first time. Salmon, Pink, Blue Purple, Yellow and Variegated in separate colors.

Ask for Descriptive Price List. These new varieties will be ready in September. Sweet pea Directions with every order.

MIGNONETTE SEED

my own select greenhouse grown; for many years the leader in New York, 1-8 oz., \$1.00; 1 oz., \$5.00.

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SOW NOW CHINESE PRIMROSE

England's Prize Strain
PRIZE FRINGED MIXED — of superlative merit. Per 100 seeds 25c., 500 seeds \$1, 1000 seeds \$1.75.

CINERARIA
ENGLISH PRIZE MIXED — unsurpassed for brilliancy of colors and size of flowers
500 seeds 60c., 1000 seeds \$1.

CYCLAMEN
An unrivalled Giant strain from an English specialist. Per 100 Per seeds 1000

English Prize Mixed	\$0.75	\$6.00
Crimson Queen. Rich deep maroon red .....	.75	6 00
Dixon Hartland. Pure white, claret base .....	.75	6 00
Duke of Connaught. A superb cherry color .....	.75	6 00
White Swan. The finest white Cyclamen in cultivation .....	.75	6 00
Rosy Morn. Bright rose with claret base .....	.75	6 00

See our Pansy offer in last issue

JOHNSON SEED CO.
217 Market St., PHILADELPHIA, PA.

Vick's Superb Pansy Seed

All the best varieties in separate colors
VICK'S SUPERB MIXTURE
the best strain from all the leading named sorts:
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Catalogues Free

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For Immediate Sowing
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GLADIOLUS BULBS
In variety and mixture
Our Trade List Mailed on Application
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PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,
The Greenhouse,
For the Herbaceous Garden,
For the Flower Garden,
For the Vegetable Garden,
Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

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FOR 1000 SEEDS
Asparagus plumosus nanus seeds.....\$2.25
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Cold storage Lily of the Valley pips, best possible grade, in cases of 1,000 and 3,000 pips each, at \$12.00 per 1,000.

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COPENHAGEN, DENMARK.



PEONIES IN 1907.

Much pessimistic talk has been indulged in this year on the peony question from the commercial standpoint. It has undoubtedly been a disastrous year for the cut flower crop on account of the lateness of the season. Our visit to the Dreer peony farm in 1906 took place May 29th, while this year the flowers were not at their best until June 19th, exactly three weeks later. This eliminates the late May and early June cut-flower trade, which means everything to those who grow for the flowers alone. But the situation is not so bad for the large seed and nursery concerns, whose main dependence is on the sale of roots in the fall and spring.

The Dreer peony farm, of which a view is given on this page, covers nearly ten acres with over 160,000 plants from two to five years old and also a considerable acreage of one-year plants. The collection embraces about 100 of the best and most distinct varieties. The nomenclature question has received great attention here, and the years of hard and painstaking work are now bearing fruit.

A number of new varieties have been added since our comments last year, but not of sufficient importance to go into at this time. Interested readers should refer to our issue of June 9th, 1906, for a review in detail of the most striking varieties.

RICHMOND ABROAD.

The colored plate of rose Richmond, sent out with The Garden for June 22, does not do justice to this grand rose as we are accustomed to see it in this country, either in color or in vigor of growth. Indeed, the stems as shown would not gain admittance to the No. 2 class as these roses are graded in American cut flower markets.

THE PEONY.

Address of J. Elliot Colt before American Peony Society, Ithaca, N. Y., June 27, 1907.

Gentlemen:— Up to the middle of the 19th Century the only peony which was known to any extent in America was the old double red of our grandmothers' gardens. It was comparatively common throughout the extent of the Atlantic seaboard, and its large vivid red blossoms with their disagreeable soapy odor were familiar to everyone. Even to the present day this flower comes into the mind of perhaps the average American when the peony is mentioned. For various reasons this old peony was looked upon as a vulgar, indelicate and unrefined flower, and while it was tolerated in the yards of the common people, it was rarely if ever given a prominent place in the collections of wealthy and discriminating flower-lovers.

However, a great change in sentiment was destined to take place, and this was brought about by the introduction of the species *Paeonia albiflora*, popularly known as Chinese or *Chinensis* peonies. This species bore single white flowers with many buds upon a single stalk. Under the stress of cultivation by the Chinese and later by M. Lemon, Victor Verdier, M. Guerin and others of France, it sported into many shades of red and all degrees of doubleness. It possessed all the beauty of the old *officinalis* type and also combined fragrance with great hardiness. I consider the species *albiflora* therefore as responsible for the great wave of popularity which the peony has undergone, and as evidence I offer the fact that the vast majority of the popular varieties on the American market today belong to this species or contain a large share of *albiflora* blood.

Peony History.

The history of the peony previous to

1650 should be treated in two parts, for before that date the peony of the Greek and Latin literature was the *Paeonia officinalis* which is wild in Southern Europe. The ancient history of *P. moutan* and *P. albiflora*, however, lies entirely in China and Japan, as previous to 1656 neither of these species were known to Europeans.

It is the species *P. officinalis* which probably secured for the genus its name. The genus *Paeonia* was so named by the ancients in honor of Paeon, a physician, who cured the wounds received by heathen gods during the Trojan war. Antiquity celebrates the virtues of this plant and places it among the wonders of the vegetable creation. Fable gives us its origin, Aesculapius its properties, and superstition ranks it among miraculous plants, assuring us that demons will fly the spot where it is planted, and that even a small piece of root worn around the neck is sufficient to protect the wearer from all kinds of encroachment.

The Tree Peony.

In A. D. 536, the Chinese in a general way distinguished two kinds of peonies: the Sho Yo or common kind which is known as *P. albiflora*; and the Mew Tang (Mow Tan) or improved kind which we recognize as *P. moutan*. In their flower gardens, the moutans claimed first place in point of beauty, and the Sho Yos took second place. For this reason the former were often called Hwa Wang, "King of Flowers," and the latter Hwa Seang, "The King's Ministers." I am indebted to an ancient Chinese horticulturist, Hung King, who wrote in 536 A. D., for the information that the original native home of the tree peony is the valley of Pa Keun, in the district of Hang Chung, in the easterly part of the province of See Chuen, together with the neighboring south part of Shen Se, or the country about the two rivers Kea Lin Keang and

ony Farms



Han Keang. In 656 A. D., Soo King, another writer, announces Hang Chung as the native home of the tree peony, thus corroborating the account of Hung King in 536. I go into this matter thus fully because it has been repeatedly stated in print that the feral home of the tree peony is not known. Robert Fortune himself states in 1830 that the tree peony may be found on the mountains of the central provinces of China.

An old Chinese book on the "Origin of Matter and Objects" states that by 713 the number of kinds had so greatly increased that the plant was common about the huts of the poor as well as about the mansions of the rich. Soon after this, about 720, eleven hundred and eighty-seven years ago, the number of kinds had so greatly increased that Gow Yang Sew established a genealogical register in which to record the characters, qualities, and parentage of the kinds which came from seed. So we find that our efforts to establish a register for our varieties of peonies are by no means original, but we must take off our hats to our friend, Mr. Gow Yang Sew, whose efforts along this line antedate ours by 1187 years!

In 1656 the Dutch East India Company sent an embassy to China which secured free access to that country, and in the published accounts of this embassy the peonies were described in glowing colors. To make a long story short, Sir Joseph Banks of England became interested in these accounts and after various unsuccessful attempts succeeded in 1794 in introducing into England two living tree peonies. Progeny of these plants were later introduced into France, and Mons. Noisette, a nurseryman of Paris, distributed them throughout the country.

Albiflora History.

The early history of albiflora is very similar to that of the moutan except that it was indigenous to a very wide

range of territory in Northern China and Siberia. As far as I have been able to find, the variety *Fragrans* was the first albiflora to find its way into Europe, and it was brought from China by Sir Joseph Banks in 1805.

Peonies of various kinds were introduced from China into Japan in 724 A. D., and were subsequently greatly improved by the Japanese. Peonies were first introduced into America by William Prince of Flushing, Long Island, soon after they reached England. McMahon speaks of them in 1806, and in 1824 Mr Prince had a collection of over forty varieties. Some twenty other species have been introduced at various times during the past century, but they are of minor importance. Only one species (*P. Brownii*) is native to America, and that we find in California. It is of value solely as a botanical curiosity.

I have not attempted to work out the botany of the peony for two reasons. In the first place, three or four monographs of the genus have already been published; and in the second place, the type specimens of the species are all in European herbaria and it would be useless for me to attempt a botanical monograph without making an extended trip to Europe.

Evolution.

Certain it is that the magnificent, large, fragrant blooms which appear upon our tables today are very unlike their wild prototypes which were introduced from Siberia. How has this vast improvement come about? What agencies have been at work. How are we to proceed to still further develop this wonderful flower? These are all pertinent questions, but their answers are not difficult to find.

There are three chief causes of variation in plants. They are: change in environment, change in food supply, and inter-crossing. Now the genus *Paeonia*, together with its relatives, is naturally variable in a wild state. In

addition to this, all three of these causes of variation came into active play when the peony was removed to Europe, where a totally different climate prevailed, and they were heavily manured by the French growers, and all of the species obtainable were planted together in botanical gardens and amateur collections, where they had every opportunity for inter-pollination. Many of the early growers cross-pollinated by hand to insure the production of hybrids. Even hybrids between the tree peony and the herbaceous sorts were secured. Small wonder, then, that the new generations presented striking and valuable variations, which were selected as parents for succeeding generations. Not only did the peony vary in color, size and odor, but, most important of all, it varied greatly in form; and, as a result, we have seedlings representing all stages of transformation from the simple single to the fully double. I find, after a careful study of the literature, that a great deal of confusion exists in regard to the names given to these horticultural types. Especially is this true in regard to the terms *anemone* and *artichoke*. For the sake of uniformity and a better understanding of each other's descriptions, I am therefore prepared to propose and define six horticultural types. I think these six types will fully cover the field and will be found to apply to all blooms existing at this time. These types are not ill-advisedly put forward. They have gradually grown and crystalized in my mind during a two years' study of the subject. For the terms employed, I am chiefly indebted to our worthy president, Mr. C. W. Ward.

Type I, the Single.

This type includes all peonies with a single row of petals, enclosing a mass of pollen-bearing stamens, and normal follicles. For the sake of an example, I mention *La Fiancee*.

(To be Continued...)

PREPARE FOR CHRISTMAS

Novelties always sell during the holidays. If you have not already grown them, try some Pink or Rose SPECIOSUMS. If potted in July will flower for Thanksgiving and Christmas. Always useful either for cut flowers or plants. Ask the leading florists in Pittsburgh, Cleveland, Detroit, Buffalo, or around New York City. Order today. Will ship any time. Cold storage Liliun longiflorums and giganteums take about two months to bloom from time of potting; speciosums from five to six months, so that longiflorums wanted for Thanksgiving and Christmas should be planted about Oct. 1, and speciosums in July.

ALL CASES ARE REPACKED BEFORE SHIPMENT

Lilium Longiflorum Giganteum	Per 100	Per 1000	Lilium Longiflorum Multiflorum	Per 100	Per 1000
7 to 9 inch bulbs, 300 in case	\$ 9.00	\$ 80.00	9 to 10 inch bulbs, 200 in case	\$11.00	\$100.00
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8 to 9 inch bulbs, 200 in case	8.00	75.00	8 to 9 inch bulbs, 200 in case	9.00	80.00
9 to 11 inch bulbs, 150 in case	12.50	110.00	9 to 11 inch bulbs, 150 in case	12.00	115.00

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400,000 More Calla Ethiopica Bulbs



Over 472,000 shipped to old and new customers. All orders from now on will be shipped next day order is received. A good many florists are ordering Bulbs to plant after chrysanthemums are pulled out. 1 prepay freight when cash comes with order. If wanted by express 1 prepay 2½c. per lb., you pay balance, 25 at 100 rates, 250 at 1000 rates.

Calla Ethiopica, 10 inches circumference	100	1000
9 " " " "	\$10.00	\$90.00
" " " "	9.00	80.00
" " " "	8.00	70.00
" " " "	7.00	60.00
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The above Bulbs will all bloom 1 year.

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Asparagus plumosus, strong plants, 5-inch pots, \$2.00 per doz. Passiflora, Mammoth Beauty, a hardy variety from 3-inch pot plants, 75c. per doz. Clematis paniculata, 3-inch pot, \$5.00 per 100. Clematis, large-flowering varieties, home grown, two year old plants, \$3.00 per doz. Swainsona alba, 3-inch pots, \$5.00 per 100.

Achyranthes Lindenii, Alternantheras, yellow, 2½-inch pots, \$2.00 per 100.

Crotons, 4 in. pots, \$2.00 per doz.

Asparagus Sprengeri, seedlings from flats at \$1.00 per 100.

Chrysanthemums, best leading varieties, White, Yellow and Pink Plants from 2½-inch pots, \$2.00 per 100.

Geraniums in full bloom, scarlet, pink and white, 4-inch pots, \$5.00 per 100.

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News Notes.

Stanley Baker of Hanover, Mass., has given up the florist business.

C. F. Davis has started in business in Denver, Colo., as a retail florist.

Mark Aitken of Springfield, Mass., had \$60 stolen from his room on the night of July 9.

L. H. Dawson's greenhouse at Spiceland, Ind., suffered considerable damage by hail on July 6.

The Calla Cut Flower Co., of Columbus, O., has increased its capital stock from \$6,000 to \$10,000.

T. F. Galvin Corp., Boston, has opened a branch store at the New Ocean House, Swampscott.

The florists of Northampton, Mass., will close their stores at 5 P. M. during the summer, with the exception of Saturdays.

J. M. Ryder, Brooklyn, Md., while working on one of his houses, fell through the roof, cutting his hands and arm severely.

Members of the Springfield, Mass., Amateur Horticultural Society visited the rose gardens in Elizabeth Park, Hartford, Ct., on July 8.

The season for strawberries in New England has been longer than usual this year, with fruit of fine flavor, large size and yield far beyond the ordinary.

The board of trustees of Connecticut Agricultural College met at Storrs on July 10 for the purpose of selecting a site for the new buildings, of which there will be five; a horticultural building 40 x 70, three greenhouses, each 75 feet long, and a forcing house.

Wired glass, which is glass with a wire netting incorporated in the sheet while the latter is in a fluid state, has been experimented with to some extent in Europe of late, and has demonstrated its superiority over ordinary glass for greenhouse purposes in certain respects, especially in point of durability.

INCORPORATED.

The Morris Nursery Co., West Chester, Pa.; George Achelis, P. A. Keene; capital stock, \$50,000.

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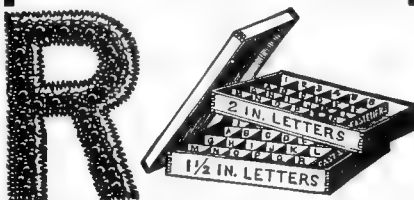
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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO June 24	TWIN CITIES June 24	PHILA. July 18	BOSTON July 18
ROSES				
Am. Beauty, Fan. & Sp.	25.00 to 35.00	20.00 to 25.00	20.00 to 25.00	15.00 to 25.00
“ Extra.....	15.00 to 20.00	18.00 to 20.00	15.00 to 18.00	10.00 to 12.00
“ No. 1.....	10.00 to 12.00	12.00 to 15.00	8.00 to 12.00	6.00 to 8.00
“ Lower grades.....	4.00 to 6.00	10.00 to 12.00	3.00 to 5.00	.50 to 3.00
Bride, 'Maid, Golden Gate, P. & S.	5.00 to 6.00	8.00 to 10.00	5.00 to 8.00	3.00 to 4.00
“ “ “ Extra.....	4.00 to 6.00	6.00 to 8.00	3.00 to 4.00	2.00 to 3.00
“ “ “ No. 1 & lw. gr.	2.00 to 3.00	2.00 to 4.00	1.00 to 2.00	.50 to 1.00
Liberty, Richmond, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	6.00 to 8.00	3.00 to 4.00
“ “ “ Lower grades.....	3.00 to 5.00	6.00 to 8.00	3.00 to 5.00	.50 to 2.00
Chatenay, Morgan, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	5.00 to 6.00	2.00 to 3.00
“ “ “ Lower grades.....	3.00 to 4.00	6.00 to 8.00	2.00 to 4.00	.50 to 1.00
Kaiserin, Carnot, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	6.00 to 8.00	3.00 to 5.00
“ “ “ Lower grades.....	3.00 to 5.00	6.00 to 8.00	2.00 to 5.00	1.00 to 2.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	5.00 to 6.00	3.00 to 4.00
“ “ “ Lower grades.....	3.00 to 4.00	6.00 to 8.00	2.00 to 4.00	.50 to 1.00
CARNATIONS				
Fancy and Novelties.....	1.50 to 2.00	1.50 to 2.00	1.50 to 3.00	1.00 to 1.50
Ordinary.....	.75 to 1.00	..... to 1.00	.50 to 1.00	.25 to .75
MISCELLANEOUS				
Sweet Peas.....	.50 to 1.00	.75 to 1.00	.20 to .50	.15 to .25
Cattleyas.....	40.00 to 50.00	50.00 to 60.00	..... to 60.00	35.00 to 60.00
Lilies.....	10.00 to 12.00	12.00 to 15.00	8.00 to 12.50	4.00 to 6.00
Lily of the Valley.....	3.00 to 4.00	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00
Gardenias.....	.50 to 1.50	.50 to .75	8.00 to 10.00	2.00 to 10.00
Mignonette.....	4.00 to 8.00	3.00 to 5.00	..... to 5.00	.50 to 1.00
Adiantum.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	.50 to 1.50
Smilax.....	15.00 to 18.00	12.00 to 15.00	12.50 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00 to 30.00	35.00 to 50.00 to 50.00
“ “ & Spreng. (100 bchs.)	35.00 to 50.00 to 30.00	35.00 to 50.00	25.00 to 50.00

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FLOWER MARKET REPORTS

Business is very dull **BOSTON** here, worse, if anything, than at any previous time this season. "Carna' five a bunch—doz'n carna' fer fi' cen'" is the call on every street corner, and the street men are not doing a land office business at that. The growers, happy growers, are, most of them, either already away or getting ready to go—some of them abroad, others to rural retreats nearer home. Many retailers are likewise enjoying themselves. The wholesalers—well, they are always enjoying themselves, even when working their hardest. The undercurrent, through all departments, seems to give promise of a fine delegation from the Hub to Philadelphia next month.

Summer dullness has come upon us and trade is actually at a standstill. Stock came in in abundance the past week, especially in the carnation line, with very little sale. The customer makes no appearance, consequently the rubbish man gets two-thirds of the material. Roses are in good supply, Killarney leading. In pink Carnot and Kaiserin were fine, but Brides and Bridesmaids are poor in quality. Longiflorum lilies are in good supply, also candidum and rubrum. Sweet peas are overflowing.

Trade has quieted down and assumed the usual midsummer dullness. The weather has grown warmer every day, and as a result stock has shown plainly the effect. Tea roses are producing quantity, but are of the summer type. Beauties with good, clear foliage find good sale and are in fair supply. Quite a variety of garden flowers are to be had, with little or no sale. Gladioli, Lilium candidum and longiflorum are in good numbers, while asters are in limited supply only. Fine sweet peas are abundant at extremely low prices. Growers of bedding plants report the best spring trade in years. A visit to their places finds them well cleaned out.

Cut flower trade is only a memory now, the principal reminder of which is uncollected accounts which stare the dealer in the face every time he opens his books and which in a majority of cases are likely to stay on the ledger for many moons before they get their happy shift to the cash account. This is the toughest part of the flower business, "and that's no dream." Plenty of flowers—such as they are—make the daily trip from far and near and take their chances at a sale which, if it is consummated, may or may not cover the express charges (reduced or otherwise). All are hoping for a reduction of the shipments at one end or a resumption of demand at the other. One or both of these would be an im-

provement thankfully received in these blistering days.

There is little **PHILADELPHIA** change to report on the market here this week. The tone has improved somewhat, but this is rather to be attributed to the decrease in supplies than to any increase in demand. There are plenty of roses and carnations coming in, of the usual summer quality. In carnations, no really first-class stock is to be seen, but the quantity of seconds is more than the market needs. There is an unusual quantity of small subjects, such as achillea, feverfew, candytuft, sweet alyssum and such arriving. Asters have improved somewhat, there being some very good pinks now coming in, also whites, but the latter are rather short-stemmed. Red gladioli are plentiful, also sweet peas. It has been a fine season for sweet peas, and they are still very good. Lily of the valley is of fine quality and plentiful. The gardenia is down into the plebeian class now, but the stately orchid holds its own at normal figures with supply short enough to keep vulgar prices at a respectful distance.

NEWPORT NOTES.

The weather during the past five weeks has been favorable in the extreme to Newport as far as filling it up with summer people is concerned and that means more eventually than if the weather conditions had been more favorable for vegetation. It is quite hot here now; outdoor roses are in consequence all but over; florists were not able to utilize these to any appreciable extent this season. There is now a scarcity of outdoor flowers and the indications are that at no time will such material be over plentiful this year. With the cottages about all occupied and nearly every one of the prominent members of the four hundred among the occupants things look exceedingly promising for a good and profitable season for florists and growers. There are already many entertainments talked of for the near future and a few have already taken place. Gardenias will be scarce this season; there are few commercial growers engaged in growing these here and I think there are not many anywhere although there is no apparent reason why they could not be made fairly profitable.

All the florists are now firmly established at their several stands on the avenue and each one is seemingly putting forth his best efforts in window decoration. For a week or more F. L. Zeigler has as an attraction a dinner table with silver and other accessories prominent, showing a floral decoration of something new for each day. All the florists are still doing a large plant business and there are still many dwellings unsupplied with palms, bay trees, etc.

BUSINESS CHANGES.

Geo. A. Heintz has removed to 336 Superior St., Toledo, O.

Wm. Trillow of Des Moines, Ia., has leased the Lambert Greenhouses.

R. Dahn has taken over the business of Dahn & Ford at Auburn, N. Y.

Miss Riggall has succeeded to the business of Thomas Plumb on Yonge St., Toronto.

Andrew Frost has purchased the business of J. P. McCullough, 284 College St., Toronto.

Perkins & Nelson succeed Perkins & Schumann, as wholesale florists, at 55 W. 26th street, New York.

J. H. Seaman & Co., Washington, Pa., have bought the greenhouses of the Washington Floral Co., and will carry on the Forrest houses until December with George Garland in charge. Eighteen thousand dollars was the purchase price.

A GREAT SUPPLY HOUSE.

In many respects one of the most interesting and useful features of the S. A. F. convention at Philadelphia, from the florists' standpoint, will be the displays made by the Philadelphia plantmen, seedsmen and supply dealers at the trade exhibition and at their respective places of business. Among the supply men Bayersdorfer & Co. will surprise by the magnitude of their display. Mr. Bayersdorfer has just returned from Europe, and there is nothing worth having that he has not gathered together in the determination to stand pre-eminent on this occasion.

OBITUARY.

Sam Fine, a florist of St. Louis, Mo., 61 years old, died on July 8 at the City Hospital.

Nicholas Bartz, who established the first greenhouse in Des Moines, Iowa, died on July 15, aged 71. Two sons survive him.

Thomas Murphy, doing business as a retail florist on Ogden Avenue, Chicago, committed suicide on July 9. He was 50 years old.

A. J. Anderson, late gardener to Mrs. Thomas J. Emery, Newport, R. I., committed suicide on July 16. He leaves a widow and two children.

A. R. Congdon of Oberlin, O., died on June 29. Mr. Congdon had built up a successful business through his untiring energy and devotion and was highly esteemed.

Mr. E. A. Cannell, youngest son of Henry Cannell of Swanley, England, died recently, at the age of 40 years. He was a member of the Cannell firm. A widow and children survive him.

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Madison Sq.**All Grades of Flowers for All Grades of Buyers****NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY**

	Last Half of Week ending July 13 1907	First Half of Week beginning July 15 1907		Last Half of Week ending July 13 1907	First Half of Week beginning July 15 1907
Roses			Carnations, Fancy and Novelties..	.75 to 1.00	.75 to 1.00
Am. Beauty, fan and sp.	10.00 to 15.00	10.00 to 15.00	Ordinary .....	.25 to 1.50	.25 to 1.50
" extra	6.00 to 8.00	6.00 to 8.00	Sweet Peas (100 bunches)	1.00 to 1.50	1.00 to 1.50
" No. 1	2.00 to 3.00	2.00 to 3.00	Cattleyas	20.00 to 50.00	20.00 to 50.00
" Lower grades .....	.50 to 1.00	.50 to 1.00	Lilies	1.00 to 3.00	1.00 to 3.00
Bride, 'Maid, Golden Gate, fan & sp	1.00 to 3.00	1.00 to 3.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
" " " lwr. grds. ....	.25 to .50	.25 to .50	Gardenias	2.00 to 10.00	2.00 to 10.00
Liberty, Richmond, fancy & special	1.00 to 3.00	1.00 to 3.00	Mignonette .....	.50 to 1.00	.50 to 1.00
" lower grades ..	.25 to .50	.25 to .50	Adiantum .....	.50 to 1.00	.50 to 1.00
Chatenay, Morgan, fancy and spec.	1.00 to 3.00	1.00 to 3.00	" Crocenium .....	.50 to .75	.50 to .75
" lower grades ..	.25 to .50	.25 to .50	Smilax	1.00 to 1.50	1.00 to 1.50
Killarney, Wellesley, fan. and spec.	1.00 to 3.00	1.00 to 3.00	Asparagus Plumosus, strings ..	8.00 to 12.00	8.00 to 12.00
" lower grades ..	.25 to .50	.25 to .50	" " & Spreu. (100 bchs.)	20.00 to 50.00	20.00 to 30.00
				10.00 to 25.00	10.00 to 25.00

ORCHIDS AT ALL SEASONS**WM. STUART ALLEN CO.**

Commission Merchants in Cut Flowers

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Alexander J. Guttman**THE WHOLESALE FLORIST OF NEW YORK****43 WEST 28th STREET**

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ENOUGH SAID**In writing to Advertisers kindly mention Horticulture**



HARDY FANCY CUT FERNS, Extra fine, \$1 per 1000
BRONZE GALAX, \$1.25 per 1000. SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25
Hammond's Old English Liquid Putty, \$1.25 per Gal. Hammond's Greenhouse White Paint, \$1.50 per Gal.

DISCOUNT ON LARGE LOTS

Give us a trial order on ferns; we are sure we can please you. Headquarters for Florist Supplies and wire work.
 Write for price list on cut flowers and supplies.

MICHIGAN CUT FLOWER EXCHANGE, INC., Wholesale Commission Florists, **38-40 Broadway, Detroit, Mich.**
TELEPHONE CONNECTIONS.

PERSONAL.

C. W. Scott of Chicago was a visitor in Boston last week.

C. Campbell of Montreal is taking a two months' vacation in Scotland.

B. S. Slinn, Jr., wholesale florist, New York, who was obliged to go to Arkansas Hot Springs last spring has returned greatly improved in health.

Visitors in Philadelphia this week: President W. J. Stewart, Boston; Secretary P. J. Hauswirth, Chicago, of the S. A. F., and Fred. H. Kramer, Washington, D. C.

We are pleased to report that the condition of Supt. W. S. Manning of the Baltimore park department is favorable to an early recovery and release from the Johns Hopkins Hospital.

State Vice-President Pierce of Massachusetts is away on a short vacation. As soon as he returns watch for news of the trip from Boston to the S. A. F. convention, which opens Aug. 20 at Philadelphia.

SUCCESSFUL ROAD TREATMENT IN NEWPORT.

Newport never looked better than it does now and it would look still better if there had been a little more rain to freshen things up and aid the work of man in the adornment of the landscape. In years past there were continual grumbings heard because of the dust from the roadways, especially from Bellevue Ave. Last season, but too late to do much good, an attempt was made to remedy the state of affairs which gave occasion for these grumbings. Oil was sprinkled on the avenue and it did the work all right but it was very forbidding in appearance and odor. This year the street commissioner obtained a supply of what is known as dustoline from New Jersey where it had been used successfully last year. The application of this oily matter which is perfectly odorless has proved an unqualified success. It not only keeps the dust down but it also saves the road because it forms along with the coat of smooth stone put on with it a durable crust on the surface of the road.

CLUB AND SOCIETY NOTES.

The Indiana Horticultural Society will hold its midsummer meeting at Purdue experiment station, Lafayette, August 7, 8. Programs will soon be ready for distribution. H. H. Swaim, South Bend, is president; W. B. Flick, Indianapolis, secretary.

The fourth annual meeting of the American Breeders' Association is announced for January 28, 29, 30, in Washington, D. C. The American Carnation Society will hold its convention on the same dates, and some of the sessions will be held jointly with the American Breeders' Association

Best Flowers

in the Boston Market

N. F. MCCARTHY & CO.

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WHOLESALE FLOWER MARKETS.—PER 100. TO DEALERS ONLY.

	CINCINNATI July 16	DETROIT June 24	BUFFALO July 16	PITTSBURG July 16
ROSES				
Am. Beauty, Fan. and Sp.....	..... to 25.00	25.00 to 35.00	20.00 to 22.00	15.00 to 20.00
" Extra	18.00 to 20.00	20.00 to 25.00	15.00 to 20.00	10.00 to 12.50
" No. 1.....	10.00 to 15.00	18.00 to	8.00 to 15.00	4.00 to 6.00
" Lower grades.....	5.00 to 8.00	6.00 to 12.00	3.00 to 5.00	..... to 1.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	6.00 to 8.00	7.00 to 8.00	..... to 6.00
" " " Extra.....	4.00 to 5.00	4.00 to 6.00	6.00 to 7.00	..... to 4.00
" " " No. 1 & lw. gr.	2.00 to 3.00	2.00 to 4.00	2.00 to 6.00	..... to 2.00
Liberty, Richmond, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	6.00 to 8.00
" Lower grades.....	3.00 to 5.00	2.00 to 4.00	3.00 to 10.00	2.00 to 4.00
Chatenay, Morgan, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	6.00 to 8.00
" Lower grades.....	3.00 to 5.00	2.00 to 4.00	3.00 to 10.00	2.00 to 4.00
Kaiserin, Carnot, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	6.00 to 8.00
" Lower grades.....	3.00 to 5.00	2.00 to 4.00	3.00 to 10.00	2.00 to 4.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	4.00 to 6.00
" Lower grades.....	3.00 to 5.00	2.00 to 4.00	3.00 to 10.00	..... to 2.00
CARNATIONS				
Fancy and Novelties.....	..... to 2.00	3.00 to 4.00	1.50 to 2.50	..... to 1.50
Ordinary.....	.75 to 1.50	.75 to 2.00	1.00 to 1.50	.50 to 1.00
MISCELLANEOUS				
Sweet Peas.....	.25 to .35	.25 to .....	.20 to .50	.25 to .50
Cattleyas.....	50.00 to 60.00	50.00 to	50.00 to 60.00	50.00 to 60.00
Lilies.....	8.00 to 10.00	15.00 to 20.00	8.00 to 12.00	..... to 8.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	..... to 4.00
Gardenias.....	10.00 to 12.00	..... to	2.00 to 10.00	10.00 to 12.50
Mignonette.....	1.00 to 2.00	25 to 1.00	1.00 to 2.00	1.00 to 2.00
Adiantum.....	..... to 1.00	1.00 to 2.00	.50 to 1.50	1.00 to 1.50
Smilax.....	10.00 to 12.00	12.50 to 15.00	15.00 to 20.00	12.50 to 15.00
Asparagus Plumosus, strings.....	40.00 to 50.00	50.00 to 75.00	40.00 to 50.00	30.00 to 50.00
" " & Spren. (100 bchs.)..... to 25.00	30.00 to 40.00	25.00 to 50.00	25.00 to 40.00

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Wholesale Florists

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Advertisements under this head, one cent a word. Initials count as words.

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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Albert Dirwanger, 422 Congress St., Portland, Me.
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R. J. Dysart, 28 State St., Boston.
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Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

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M. Bullocke, 85th St. and 2d Ave., Brooklyn, N. Y.

Variegated Agaves.

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Thos. J. Grey & Co., 32 S. Market St., Boston.

For page see List of Advertisers.

Joseph Breck & Sons,

51 and 52 N. Market St., Boston.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

For page see List of Advertisers.

ASPARAGUS

C. Elsele,

11th and Roy Sts., Philadelphia, Pa.
For page see List of Advertisers.

DePew Bros., Cor. Piermont and DePew Aves., Nyack, N. Y.
Asparagus Sprengeri.

For page see List of Advertisers.

Asparagus Sprengeri, 2 1/4 in.; ready for planting out or into larger pots. \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rates. J. F. Anderson, Short Hills, N. J.

Asparagus plumosus nanus and Sprengeri, 2 1/2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

AZALEAS

John Scheepers & Co., 4 and 6 Old Slip, New York.

For page see List of Advertisers.

BAMBOO CANES

Stumpp & Walter Co., 50 Barclay St., New York.

For page see List of Advertisers.

BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

C. Elsele, 11th and Roy Sts., Phila.
For page see List of Advertisers.

100,000 Bedding Plants, all sorts. Write for prices. E. D. Kaulback & Son, Malden, Mass.

BEGONIAS

J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Begonias Agatha, Triomphe De L'Est.
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Rex begonias, 2 in., 3c. J. H. Dann & Son, Westfield, N. Y.

Begonias—Fairly Queen, Gracilis, and other flowering kinds; 3 inch \$5 per 100. Harlowarden Greenhouses, Greenport, L. I.

BOILERS

BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
Cold Storage Lilies.

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Rickards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4 and 6 Old Slip, New York.
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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.
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James Vick's Sons, Rochester, N. Y.
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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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Wm. Cooper & Co., Montreal, Can.
Wanted: White and Pink Lawsons; Winsers.

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The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass

CHRYSANTHEMUMS

Castle Grove Greenhouses, Danville, Pa.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting Co., 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums—All good late kinds, standard novelties out of 2 1/2 inch, up to September 1. Harlowarden Greenhouses, Greenport, N. Y.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2 1/2 in. stock are given on application. Pöhlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Hallday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.

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Giant Hybrids transpl., ready for 2 in. and 3 in., \$3.50 100; \$30.00 1000; 3 in. strong, \$8.00 per 100. Plants grown of seed taken from the cream of my well known strain. Christ, Winterlich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

EVERGREENS

Bay State Nurseries, N. Abington, Mass.
Small Evergreens.

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FERNS

- A. Leuthy & Co., Roslindale, Mass.
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Nephrolepis Whitman.
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- Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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- The F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersoni Elegantissima.
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- Wm. C. Smith, 61st and Market Sts.,
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Boston and Scott's Ferns.
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- Stumpp & Walter Co., 50 Barclay St.,
New York.
Ferns in Flats.
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- Godfrey Aschmann, 1012 Ontario St.,
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- Wm. Craig, 1305 Filbert St., Philadelphia.
Nephrolepis Amerpohlil.
- Robert Craig Co., Market and 49th Sts.,
Philadelphia.
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- Baur Floral Co., Erie, Pa.

FERTILIZERS

- Pulverized Manure Co., 31 Exchange Ave.,
Chicago.
"Wizard Brand" Sheep Manure.
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FICUS

- Wm. C. Smith, 61st and Market Sts.,
Philadelphia.
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- Robert Craig Co., Market and 49th Sts.,
Philadelphia.
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FLORAL PHOTOGRAPHS

- Floral Photographs. Foley's 226-228-12
Bowery, New York.

FLORISTS' LETTERS.

- Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.
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- G. A. Sutherland Co., 34 Hawley St.,
Boston, Mass.
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- Koral Mfg. Co., 26 Hawley St., Boston.
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- N. F. McCarthy & Co., 84 Hawley St.,
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- H. M. Robinson & Co., 15 Province St., and
9 Chapman Pl., Boston, Mass.
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- The Kervan Co., 113 W. 28th St., N. Y.
Decorative Evergreens.
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- Reed & Keller, 122 W. 25th St., New York.
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- J. B. Murdoch & Co., 645 Liberty St.,
Pittsburg, Pa.
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- H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
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- J. Stern & Co., 125 No. 10th St., Phila-
delphia, Pa.
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- Fred C. Weber, 4326-28 Olive St.,
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- J. Brettmeier's Sons, Miami & Gratiot
Aves., Detroit, Mich.
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- Thos. Young, Jr., 41 W. 28th St., N. Y.
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- George H. Cooke, Washington, D. C.
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tinued.**

- Gude Bros. Co., 1214 F St.,
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- Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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- Young & Nugent, 42 W. 28th St., N. Y.
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- Theodore Miller, 4832 Delmar Rd.,
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- P. J. Hauswirth (Temporary address) 13
Congress St., Chicago.
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- William J. Smyth, Michigan Ave and 31st
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- Theodore Miller, 4832 Delmar Bvd.,
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- Park Floral Co., Denver, Colo.
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- Thos. F. Galvin, 124 Tremont St., Boston
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- Jacob Schulz, 644 4th Ave., Louisville, Ky.
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- Atlanta Floral Co., Atlanta, Ga.
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- David Clarke's Sons, 2139-2141 Broadway,
New York.
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- W. H. Donohoe, 2 W. 29th St., New York.
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- Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

- W. H. Ernest, 28th and M Sts.,
Washington, D. C.
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- A. H. Hews & Co., Cambridge, Mass.
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- Hilfinger Bros., Ft. Edward, N. Y.
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GALAX

- H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston.
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- Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.
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GARDENIAS

- John Scott, Rutland Rd., and E. 45th St.,
Brooklyn, N. Y.
Gardenia Veitchii.
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- Stumpp & Walter Co., 50 Barclay St.,
New York.
Gardenia Plants.
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- Robert Graig Co., Market and 49th Sts.,
Philadelphia.
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GERANIUMS

- R. Vincent, Jr., & Son, White Marsh, Md.
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- 4000 Geraniums, S. A. Nutt, Poitevine,
White, John Doyle, \$6.00 per 100. Good
plants. Burgess & Cooney, 77 Lebanon
St., Maplewood, Mass.
- 2000 Geraniums—Nutt, La Favorite, Gen.
Grant, Pride of the West; 3 1/2 in. pots,
\$5.00 per 100; \$40.00 per 1,000. Wm. Pat-
terson, 92 South Central Ave., Wollaston,
Mass.

GLADIOLI

- Arthur Cowee, Meadowvale Farm, Berlin,
New York.
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- Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

GLASS

- Boston Plate & Window Glass Co., Boston
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- GLASS. High Grade. Double Thick Green-
house Glass. Lord & Burnham, 1133 Broad-
way, N. Y.

GLAZING POINT

- H. A. Dreer, Philadelphia, Pa.
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- GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

**GREENHOUSE BUILDING MATE-
RIAL.**

- Lord & Burnham Co.,
1133 Broadway, New York.
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- Pierson U-Bar Co., 1 Madison Sq., N. Y.
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- Hitchings & Co., 1170 Broadway, N. Y.
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- A. T. Stearns Lumber Co., Neponset, Boston.
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- King Construction Co., N. Tonawanda, N. Y.
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- J. C. Moninger Co., 117 East Blackhawk St.,
Chicago, Ill.
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- Foley Mfg. Co., 471 W. 22nd St., Chicago.
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- Metropolitan Material Co., 1398-1408 Metro-
politan Ave., Brooklyn, N. Y.
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- D. Hille, 49 Washington St. N., Boston.
Piping and Construction.
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- S. Jacobs & Sons, 1365-79 Flushing Ave.,
Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

- GREENHOUSE CONSTRUCTION. Semi-
Iron Greenhouses, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.

GREENHOUSE HOSE

- Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

- GUTTERS, Cast Iron Gutters, L. & B
Improved V Shaped Gutter with drip gut-
ter attachment. Lord & Burnham, 1133
Broadway, N. Y.

HARDY FERNS AND SUPPLIES

- H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston, Mass.
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- The Kervan Co., 113 W. 28th St., N. Y.
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- Michigan Cut Flower Exchange,
38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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- A full line of ferns, galax, and all wild
greens. N. F. McCarthy & Co., 84 Haw-
ley St., Boston.

HARDY PERENNIALS

- M. H. Walsh, Woods Hole, Mass.
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- Bay State Nurseries, N. Abington, Mass.
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- T. H. Chivers, Amesbury, Mass.
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- Johnston Heating Co., 1133 Br'dway, N. Y.

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- The A. T. Stearns Lumber Co., Neponset,
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- Hitchings & Co., 1170 Broadway, N. Y.
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- Lord & Burnham Co., 1133 Broadway, N. Y.
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In writing to Advertisers kindly mention Horticulture

HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.
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INSECTICIDES.

Nicotinide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St.,
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A. Leuthy & Co., Roslindale, Mass.
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LAWN AND CEMETERY VASES

Kramer Bros. Foundry Co., Dayton,
Ohio.

LAWN MOWER

Clipper Lawn Mower Co., Dixon, Ill.
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George H. Cooke, Washington, D. C.

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Samuel Murray, 1017 Broadway,

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Jacob Schulz, 644 4th Ave., Louisville, Ky.

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David Clarke's Sons, 2139-2141 Broadway,

New York.

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W. H. Donohoe, 2 W. 29th St., New York.

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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.

Long distance telephone connections.

LILACS

August Rolker & Sons, 31 Barclay St.,

New York

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LOBELIAS

LOBELIA KATHLEEN MALLARD.

New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new
Christmas flowering plant. Write for de-
scriptive circular and price list. Chas. H.
Totty, Madison, N. J.

NIKOTEEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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The Conard & Jones Co., West Grove, Pa.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Nursery Stock, N. F. McCarthy & Co.,
84 Hawley St., Boston, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Carrillo & Baldwin, Secaucus, N. J.
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Selbrecht & Son, Rose Hill Nurseries,
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Jos. A. Manda, 191 Valley Road, W.
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Orchids, Orchid Baskets, Peat.
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August Rolker & Sons, 31 Barclay St., New
York.
Kentia Palms.
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Kentia-Phoenix, etc., all sizes. Write for
new price list. Julius Roehrs Co., Ruther-
ford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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Benj. Hammond, Fishkill-on-Hudson, N. Y.
PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Cottage Gardens Co., Queens, N. Y.
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Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfeld, West Point,
Neh.
Peony and Phlox Manuals, 25 cents
each. One of the finest collections of
Peonies in America. C. S. Harrison's Select
Nursery, York, Neb.
French Peonies. The best collection.
All varieties guaranteed true to name.
Large stock. Strong plants. Catalogue
free. Dessert, Peony Specialist, Chenon-
ceaux, France.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and
Wrought Pipe, Valves, Elbows, Pipe Hooks.
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz.
The Geo. Wittbold Co., 1657 Buckingham
Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

RHODODENDRONS

John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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ROSES

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Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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Chicago Carnation Co., Joliet, Ill.
American Beauty Plants.
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Robert Craig Co., Market and 49th Sts.,
Philadelphia.
Grafted Roses.
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Baur Floral Co., Erie, Pa.
Roses for Benchling.
C. H. Totty, Madison, N. J.
American Beauty and Richmond.
Siebrecht & Son, Rose Hill Nurseries, New
Rochelle, N. Y.
Everblooming Roses.
Low-budded roses, No. 1, \$95.00; No.
1-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.
Roses, Bride, Bridesmaid, Ivory, 2 1/2 in.,
shifted from 2 in., \$3.00 per 100; \$25.00
per 1000. Wm. B. Sands, Lake Roland,
Md.

RUSTIC WORK

Wm. Elliott & Sons, 201 Fulton St., N. Y.
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SALVIAS

John Scott, Rutland Rd., and E. 45th St.,
Brooklyn, N. Y.
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Joseph Rreck & Sons
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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A. T. Boddington, 342 W. 14th St., N. Y.
Challenge Pansy Seed.
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H. F. Michell Co., 1017 Market St., Phila.
Pansy, Cineraria, Primula Seeds.
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James Vick's Sons, Rochester, N. Y.
Vick's Superb Pansy Seed.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 E. 19th St., New York.
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Johnson Seed Co., 217 Market St., Phila.
Primula Seeds; Kingly Pansies.
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R. & J. Farquhar & Co., 6-7 So. Market St.,
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C. C. Morse & Co., 48-56 Jackson St.,
San Francisco, Cal.
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H. E. Fiske Seed Co., Faneuil Hall Sq.,
Boston.
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Augustus Zirngiebel, Needham, Mass.
Giant Pansies.
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Braslan Seed Growers Co., San Jose, Calif.
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W. W. Rawson & Co., 5 Union St., Boston.
Exhibition of Sweet Peas.
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Ant. C. Zvolanek, Bound Brook, N. J.
Sweet Pea Seed; Mignonette Seed.
For page see List of Advertisers.
Francis Brill, Hempstead, L. I., N. Y.
Garden Seeds.
I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.
Pulverized Sheep Manure.
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SMILAX PLANTS

Welch Bros., 226 Devonshire St., Boston.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREA

Spirea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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STEVIA

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VEGETABLE PLANTS

Samuel W. Shanklin, White Marsh, Md.
Celery Plants: Cabbages
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Danish Root Head Cabbage—Strong, straight ball-pruned plants, ready for field, from the best imported seed, \$1.50 per 1000. Frank Shearer & Son, Market Gardeners, Binghamton, N. Y.

Celery Plants, \$1.00 per 1,000. Four million stocky plants. Golden Self Bleaching (French seed) White Plume, Winter Queen, Giant Pascal and Golden Heart. F. Rochelle, Chester, New Jersey.

100,000 field-grown tomato plants. C. Jewel, L. Beauty, etc., \$1.00 per 1,000. 15 varieties cabbage, \$1.00 per 1,000; \$7.50 per 10,000. Celery plants, \$1.25 per 1,000; 10,000 for \$10.00. 50,000 caniflower, best snowball, 50c. per 100; \$2.50 per 1,000. Cash. Catalogue. F. M. Pattington, Scipioville, N. J.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VENTILATING MACHINERY. New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

VIOLETS.

H. A. Molatsch & Son, Nanuet, N. Y.
Gov. Herrick Violet.

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WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Bellscher's Wire Works, 3840 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS**Boston**

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New Offers in This Issue.**AMERICAN BEAUTY PLANTS.**

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S. A. F. TRADE EXHIBITION.

David Rust, Supt., Horticultural Hall, Philadelphia.
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BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Competent assistant in flower, seed and bulb department. State experience and salary wanted. Address Schlegel & Fottler Co., Boston, Mass.

SITUATIONS WANTED

GARDENER wishes position on private place as head; competent in all branches of gardening, landscape work and improvements; care of live stock; capable of taking full charge; age 38; married, two children; best of references. Address Gardener, care of HORTICULTURE.

FOR SALE

FOR SALE—Cheap. 10,000 flower pots, assorted sizes, 2 in. to 12 in. Jos. B. Anders, Hatfield, Pa.

In writing to Advertisers kindly mention Horticulture

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THE GERMAN APPLE DEMAND.

"Fine table apples for the German market should be selected from attractive varieties and good keepers," says Consul Bilttain, at Kehl in a report to the Department of Commerce and Labor. "They should be wrapped in tissue paper, then packed in fine excelsior, in boxes made from strong, light lumber. These boxes should be about 24 inches long, and from 12 to 14 inches wide, and sufficiently high for one layer of apples. Should two layers be placed in the same box, they should be separated by cheap cardboard and the second layer should be packed as the first. While this sort of packing may require a little more time, yet the extra expense will be slight and the seller will be duly compensated by the increase in the price of the fruit. Apples coming from France, running from two and a half to three to the pound, packed as described, sell for 5, 6 and 7 cents each—apples that are inferior to ours in appearance and flavor. The size and beauty of our finest apples would doubtless command a much higher price. No continental apples equal ours in flavor or appearance. At present American apples of the common grades, packed in boxes or barrels, sell at 10 to 12 cents per pound. We must pay more attention to the manner of packing merchandise, especially perishable merchandise, if we wish to capture the foreign market."

LIST OF PATENTS. Issued June 25, 1907.

- 857,684. Garden Implement. Charles S. Stevens, Conneaut, Ohio.
- 857,711. Harrow. Jesse E. Arnold. Hico, Texas.
- 857,967. Plow. Samuel V. Weeks, Highland Park, Tenn., assignor to Emerson Mfg. Co., Rockford, Ill., a Corporation of Illinois.
- 858,187. Greenhouse Bench. Robert O. King, North Tonawanda, N. Y.
- Issued July 9, 1907.
- 859,243. Harrow, planter and cultivator. James T. Clive, Damascus, Ark.
- 859,456. Fertilizer distributor. Robert Love, Syracuse, N. Y., assignor to Kemp & Burpee Mfg. Co., Syracuse, N. Y.
- 859,748. Mowing machine. Harold H. Denman, Pullman, Wash.
- 859,869. Planting or seeding machine. Frank C. Brown, Canon City, Colo., assignor of one-half to John W. Marsh, Canon City, Colo.
- 859,881. Lawn mower. Alfred Hill, Denver, Colo., assignor to Kendrick & Hill Mfg. Co., Denver, Colo.

WASHINGTON FLORISTS' CLUB.

The Washington Florists' Club are to have an afternoon outing to the Great Falls on the Virginia side, on July 25th. All are looking forward with much pleasure to the event, as there will be sports of various kinds, and that added to the great beauty of the natural scenery ought to compensate all for their proportionate assessment, to say nothing of the dinner that will be served at the Dickey House. It is hoped there will be a full attendance.

During Recess

"Hang Sorrow" care will kill a cat
And therefore let's be merry."

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The annual club picnic will be held in Dorchester Park, corner of Dorchester Ave. and Richmond St., and Adams St., Dorchester, on Thursday, July 25. The park is easily reached by Ashmont and Milton electric from Dudley St. Station, or any electric running through Milton Lower Mills, the walk being only three minutes. Cedar Grove Station on the Mattapan branch of the N. Y., N. H. & H. R. R., is only ten minutes' walk distant.

A very attractive and valuable list of prizes has been entered for the 30 events on the athletic part of the programme. Entries are restricted to club members, their wives and families. Peter Miller will be official starter; Wilfrid Wheeler, official handicapper and the sporting committee consists of J. W. Duncan, Robert Cameron, H. M. Robinson, R. S. Edgar, James Wheeler, Wm. Davis, Wilfrid Wheeler, Peter Miller, Maurice Fuld and Duncan Finlayson. Sports will commence at 10 A. M. sharp. A cordial invitation is given to all who want to spend a thoroughly enjoyable day to be present. The commercial growers are hoping to regain their lost laurels in the tug of war contest, which the private gardeners are as intent on keeping. Great rivalry is promised in many of the sporting events and a record-breaking attendance is assured.

List of Events.

1. Base ball. Commercial and seed-men vs. private gardeners and park men. Nine pins. A. H. Hews & Co. Prize.
2. Base ball. Boys under 15. A. F. Scott prize.
3. Throwing base ball. A. T. Stearns Lumber Co. 1st, seamless ball, 2nd fountain pen.
4. 100-yard dash, handicap. R. & J. Farquhar Co. 1st, suit case; 2nd, 2 doz. oranges, 3d, cigar case.
5. 100-yard dash. Boys under 15. T. H. Westwood, prize, 1st, jersey; 2nd, base ball glove.
6. 100-yards dash. Girls under 15; W. H. Downs, prize, 1st, brooch; 2nd, brooch.
7. 100-yards sack race, handicap. K. Finlayson, prize, 1st, fishing rod; 2nd, cigar case.
8. 100-yard fat-men's race (over 200 lbs.) W. Sims, 1st prize; cuff links; Duncan Finlayson, 2nd prize, cuff links.
9. 50-yards race. Married ladies, Joseph Breck and Son, Corporation, prize, 1st, high grade hammock; 2nd, 1 case scissors.
10. 100-yards race. Ladies over 16, Robert Cameron, prize, 1st, camera (Brownie No. 2); 2nd, camera (Brownie No. 3).
11. 100-yards sack race. Boys under 15. Edward Hatch, prize, 1st, tennis racquet; 2nd, base ball glove; 3d, knife.
12. Potato race. Ladies, Thomas Roland, prize, 1st, hat pin; 2nd, hat pin; 3d, thimble.
13. 100-yard three-legged race. F. E. Palmer, prize, 1st, pocket knife (pearl handle); 2nd, 2 belts.
14. 240-yards run, handicap. T. J. Gray, prize, 1st, cup; 2nd, fountain pen; 3d, knife.
15. Quoit match. D. Iliffe, prize, 1st, razor; New England Nursery Co., 2nd, magnifying glass; 3d, pair quoits.
16. High jump. W. J. Stewart, prize, 1st, watch fob; 2nd, umbrella.
17. Long jump. Penn Co., prize, 1st, gold sleeve links; 2nd, umbrella.
18. Putting 16-lb. shot. Schiegel & Fottler, prize, 1st, (not specified).
19. Potato race. Boys under 10. J. Flood Co., prize 1st, Rugby ball, 2nd, base ball; 3rd, pair dumb bells.

?

Is Your Name In The Above
List? If Not, Why Not?

?

SNAP SHOTS AT THE NEW YORK FLORISTS' CLUB PICNIC.



Disembarking.



A Boys' Race.



W. J. Elliott and Wife in Centre.



Al. Rickards Knocks a Foul.



Joe Manda In Action.



Irwin at the Bat.

20. Potato race, Girls. W. W. Rawson, prize, 1st, locket; 2nd, chain; 3rd, pin.
21. 200-yard race, Boys under 10. W. H. Whittier, prize, 1st, watch; 2nd, camera; 3rd, exerciser.

22. Throwing tennis ball, Ladies. H. E. Fiske Co., 1st, tennis racket; 2nd, purse.
23. Tug of war, Pierson U. Bar Co., prize, 1st, box of cigars.

24. Consolation race. Prizes for all.
25. 50-yard race, girls under 7. R. T. McGorum, prize, base ball bat.

26. 50-yard race, girls under 7. R. T. McGorum, prize, hair brush.

Base ball players among the club's members should send in their names to their captain, F. E. Palmer, Brockline, for the commercial florists and seedsmen, and Wm. Fischer, Union Terrace, Jamaica Plain, for the private and park gardeners.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The annual outing and picnic of the club was held at Grove Park, Castle Shannon, Pa., on July 10th, which in spite of the somewhat threatening weather, and also of the fact that the affair was arranged in a hurry and members had a short notice, was fairly well attended. An early start was made by special train on the Pittsburgh & Castle Shannon Railroad, which is a narrow gauge road, one of the few remaining relics of primitive railroading in this country.

An elaborate program of sports and athletic events was arranged by the picnic committee, which was enthusiastically indulged in by young and old. A well-contested baseball game was won by the store men over the growers. Score 9 to

7. G. Ludwig donated nine knives for the winning team. The fat men's race was won by Wm. Hartlick, J. W. Ludwig being a close second. The rope provided for the tug-of-war team refused several times to stand the severe strain, precipitating the contesting teams ignominiously on the field. No other rope strong enough being procurable, the prize, a box of cigars, was divided between the teams. The \$5.00 gold piece donated by A. W. Smith for 100 yds. dash, open, was won by W. A. Carney. The ladies' races were closely contested, Miss Caroline Lease winning the young ladies' race in fine style. The 1st open race was won by Miss Carrie J. Smith.

Winners in the other events were: Girls, Lena Wooster; boys, Geo. McCallum; three-legged race, Messrs. Berring and H. S. man; bag race, Walter Berring; 100 yds. dash, for growers only, E. Hatch; broad jump, E. J. McCallum; 100 yds. back-walk, H. W. Carney.

POT MAKERS FOR 140 YEARS

A. H. HEWES & CO. INC.

CAMBRIDGE, MASS.
FLORIST WARE OF EVERY KIND



DANIEL ILIFFE

**Greenhouse Construction—Supplies
Heating and Ventilating
Steam and Hot Water
Piping**

On hand, a quantity of second-hand valves
from 2 to 6 in. Send for Catalogue.

**49 Washington Street, North,
BOSTON, MASS.**

GREENHOUSES BUILDING AND CONTEMPLATED.

New York, N. Y.—C. A. Dards, one house.

Milwaukee, Wis.—J. E. Uihlein, conservatory.

Shelbyville, Ill.—E. M. Harwood, house 18x170.

Liberty, Ind.—Cully & Tharp, vegetable house, 23x139

Springfield, Ill.—Growers Specialty Co., range of houses.

Additions.

Doylestown, O.—C. A. Musser, house 80 ft.

Watertown, N. Y.—Fred Avery, rose house.

Skaneateles, N. Y.—J. G. White, carnation house.

New Orleans, La.—City Park Commission, one house.

Baltimore, Md.—A. Fiedler & Co., carnation house, 30x200.

Lexington, Mass.—W. C. Stickel, improvements and additions.

S. Stoughton, Mass.—W. B. Goode-nough, violet house, 26x125.

Slingerlands, N. Y.—A. Goldring, two carnation houses, 20x130.

Minneapolis, Minn.—Hiawatha Gardens Co., one house, 25x100.

Washington, D. C.—Mrs. G. G. Hubbard, rose house and grapery.

Muskegon, Mich.—L. Wasserman, violet house, 140 ft., fern house, 75 ft.

Mt. Washington, Md.—N. D. Hamilton, one house 35x100; improvements and extensions.

Clipper Lawn Mower Co. DIXON, ILL.

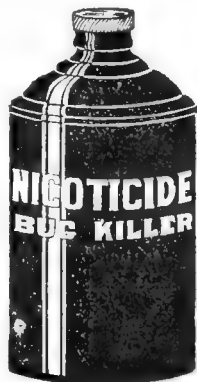


The Mower

that will kill all the weeds in your lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter.

In writing advertisers, mention Horticulture



The Best Bug Killer and Bloom Saver

For PROOF

Write to

P. R. Palethorpe Co.
OWENSBORO, KY.

STANDARD FLOWER POTS

Packed in small crates, easy to handle

Price per crate		Price per crate	
1500	2 in. pots in crate \$4.88	1207	7 in. pots in crate \$4.20
1500	2 1/2 " " 5.25	608	" " 3.00
1500	3 " " 6.00	HAND MADE	
1000	3 " " 5.00	489	9 in. pots in crate \$3.60
800	3 1/2 " " 5.80	4810	" " 4.80
500	4 " " 4.50	2411	" " 3.60
320	5 " " 4.51	2412	" " 4.80
144	6 " " 3.16	1714	" " 4.80
		616	" " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.



ALL HEART SUN DRIED

CYPRESS

There is no wood its equal to resist decay when it is **FREE of SAPWOOD** and **SUN DRIED IN THE AIR**. One piece of sap in a house will cause more trouble and expense than many times the difference in cost between the best and sappy material. Kiln drying destroys the vitality of any wood.

We Guarantee Our Cypress

TO BE

Without Sapwood and Air Dried.

Send for free catalogue of

GREENHOUSE MATERIALS.

Foley Mfg. Co.

Western Avenue and 26th Street,
CHICAGO.

Our visiting friends are heartily welcome to call and see us at our handsome new factory. Transfer from any West Side street car to S. Western Ave. and get off at 26th St.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

W. H. ERNEST,

28th and M Street WASHINGTON D. C.



NIKOTEEN APHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES

NIKOTEEN

LIQUID
FOR SPRAYING OR VAPORIZING

PRICE \$1.50 PER PINT BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES

NICOTINE MFG. CO. ST. LOUIS MO.

PLANT GROWERS READ THIS:

Rutherford, N. J., June 26, 1907.

Messrs. W. W. Castle Co., 170 Summer St., Boston, Mass.

Gentlemen:—Your inquiry regarding the Circulators received, and in reply beg to say that the four Circulators now in operation have been more than satisfactory. We can give special commendation for the work you have rendered in connection with our old steam system, which heated at the time something like 30,000 sq. ft. of glass.

Since changing this steam system to a hot water system, it has not only taken care of the 30,000 sq. ft. of glass to our entire satisfaction, but we have been able to add several more houses and sheds to the system without the least trouble.

The piping in this range was very defective, and after the slight changes which were made, the Circulator now takes care of it all, and we would not want to be without it for five minutes in cold weather.

You may book our order for another Circulator which is to go on the battery of boilers under the packing shed, of which we spoke to your Mr. Congdon upon his last visit.

Very truly yours,

(Signed) JULIUS ROEHRS CO.

Since the above letter was written, Messrs. Roehrs have ordered two more boilers and circulators to be installed this summer.

Our Steel Plate Hot Water Boiler and Electric Circulator constitute

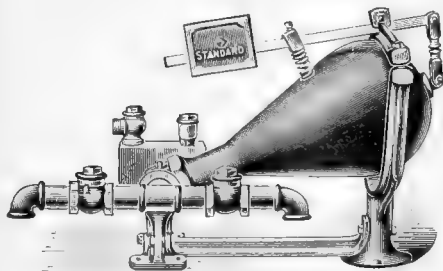
AN INVINCIBLE PAIR

Write to us before you buy any more heating apparatus. We can save you good money.

PIPING AND FITTING DONE AND SATISFACTION GUARANTEED.

W. W. CASTLE, Heating Engineer, 170 Summer St., Boston.

THE STANDARD STEAM TRAP



is acknowledged the best for the florist, because it is durable and does its work without trouble and annoyance, saving its cost by the economy in coal bills.

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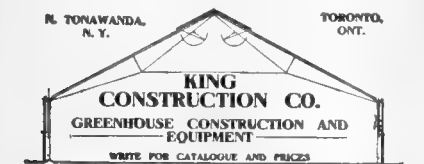
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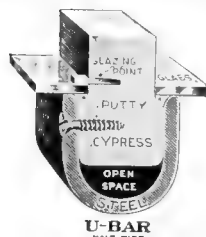
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Let us say it another way: We make at that immense plant of ours, at Irvington, N. Y., practically everything for your greenhouse, from L & B special putty to the "Burnham" Boiler. When you think it over, we are really running a Greenhouse Department Store, where you can buy from one concern, under one bill, a keg of putty and a few clamp bench fittings, or order a complete house, with all material, everything, even to the last coat of paint.

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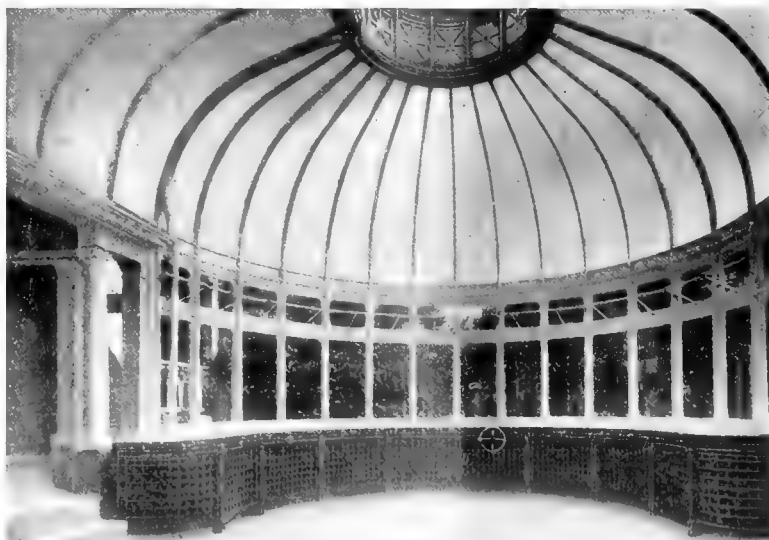
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dome. To further complete its perfect appointment all heating pipes are placed under the side tables and hidden from view by the grills. All metal parts are given a coat of aluminum paint, both for their preservation and perfection in finish. The catalog shows the exterior and plan of this palm-house conservatory. **Pierson U-Bar Company**, Designers and Builders *U-Bar Greenhouses*, Metropolitan Building, 4th Avenue and Twenty-third St., New York.



HORTICULTURE

Vol VI.

JULY 27, 1907

No. 4



LUPINUS POLYPHYLLUS

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
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DO YOU NEED ANYTHING MORE TO CONVINCE YOU?

Read carefully this testimonial and those that we have already published. Don't Delay—Frosty Nights are Due in Eight or Ten Weeks

Tarrytown-on-Hudson, New York, July 22, 1907.

WILLIAM W. CASTLE CO.,

170 Summer St., Boston, Mass.

Gentlemen:—Yours, asking in regard to our experience with your circulator which you installed for us last fall, is at hand.

Owing to the late completion of our houses, we could not test it accurately for coal economy, but we intend to give it a thorough test in this respect the coming season. WE CONSIDER IT, HOWEVER, A SPLENDID THING IN OTHER RESPECTS, FOR IT GIVES THE RAPIDITY OF A STEAM CIRCULATION ON A HOT-WATER SYSTEM. This is a particularly valuable adjunct to a water system, even on a scientifically proportioned heating system, such as we have just installed, where the water mains are eight-inch mains, so arranged to remove every particle of friction, allowing the most perfect circulation by gravity.

We have your Circulator installed on TWO of our new houses, which were erected last year and which are 350 FT. LONG AND 56 FT. WIDE. The size of these houses will better be realized when we state that they are equivalent to twenty regular 100-ft. houses 20 ft. in width. In these large houses we can bring the water back to the boiler within less than ten minutes from the time the Circulator is started, so that the water returning to the boiler is within a few degrees as hot as when it leaves the boiler. This makes every hot-water pipe all through the range **EQUALLY HOT AT ALL POINTS**, and is a particularly valuable feature after a bright, sunny winter day, when the thermometer suddenly drops after sundown, as we can circulate the water as rapidly as steam could be circulated.

If it is valuable in a range like ours, where everything is scientifically balanced to remove all friction, it would be **DOUBLY VALUABLE** on the **AVERAGE** place, where the mains are invariably small and where the circulation is very badly retarded by friction. We were doubtful as to whether it would be of particular value to us under our conditions, as we had made the system as perfect as it was possible to make it, without regard to the initial expense in the installation of the system, considering it far better economy to have our pipe larger than was necessary, so as to remove all possible friction; but, **EVEN UNDER THESE CONDITIONS, WE HAVE FOUND IT A GREAT ADVANTAGE**, but we believe that to the average grower, with the ordinary hot-water system, it will be found of **INCALCULABLE VALUE**, and, undoubtedly, a very great economizer in coal consumption, as it will enable one to get a **GOOD DEAL BETTER RESULTS** from the fuel burned than if the water was circulated alone by gravity.

We were somewhat afraid of the expense in running the Circulator at first, but find that it is not necessary to run it continuously. It can be run fifteen minutes, and can be stopped for an hour and a half, and then run again for fifteen minutes, so that the amount of electrical power expended is unexpectedly small. **FROM A MECHANICAL STANDPOINT, IT IS PERFECT.** Any one can operate it, and it certainly seems to us an **INVALUABLE ADJUNCT TO A WATER SYSTEM.**

We should be glad to have any one call and inspect it at our Scarborough place, where it can be seen in operation, any time after we begin to fire in the fall.

Very truly yours,

(Signed) F. R. PIERSON CO.

The installing of the Circulator in Mr. Pierson's place was our first opportunity to demonstrate its value in a plant recognized as the most modern and best equipped in the country. Our main business previous to this was to correct imperfect circulation due to defective piping and **Boiler-ing**. I suggested to Mr. Pierson the type of boiler he should use—approximately the same as we are building at the present time. **Unquestionably he has the best gravity hot water system** on this continent yet anyone who will carefully peruse the above letter will see how greatly the Circulator has improved what I consider a perfect system of hot-water heating. **If the results in such a system have been what Mr. Pierson indicates how much more should the improvement be in a defective one?**

Considering the testimonials of Mr. Pierson, Julius Roehrs, W. W. Edgar, Robert Simpson and others which have already been published, I ask in fairness whether the florists of this country need anything more to convince them of the absolute value of this apparatus.

Keep in mind our Boiler and Heating System. If you wish a cheap second-hand boiler we have some to sell—steam and cast-iron hot-water. Although we do not recommend them we can quote you very low prices as we are removing quite a few.

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We have a magnificent lot of Hydrangea Otaksa grown especially for **JULY AND AUGUST FLOWERING**. The plants are just coming into bloom just beginning to show color, and will be in perfection during July and August, when they are in great demand at watering places and other summer resorts. There is nothing showier or more satisfactory for lawn decoration. We make a specialty of them, and find an increasing demand for them from year to year. They can be shipped anywhere safely by freight.

Large plants in tubs, \$2.00 to \$3.00 each, according to size. Very large specimens, in half barrels, \$5.00 and \$7.50 each.

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SOME GIVE YOU QUALITY
I GIVE YOU BOTH

Boston and Scotti Ferns

6-inch pots, \$40.00 per 100

LARGE BOSTONS, AT \$1.00 AND \$1.50
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WHITMANII, 6-INCH POTS, \$60.00 PER 100

FIGUS, RUBBER PLANTS, 6-INCH POTS, 20 TO
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for late fall and winter use, mostly Conifers, in assorted
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the hundred from twenty to thirty dollars, duty paid
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Splendens Giganteum Hybrids

In five colors: the fines: strain known. 3 in.
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are in first-class condition everyone guar-
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Price on larger sizes upon application.

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WHITE—Opah, Beatrice May \$5.00. Ivory, T.
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B. Chamberlain, Wm. Duckham, Maud Dean, Leila
Fil ins. **YELLOW**—M. j. Bonnation, Geo. Hutton,
Yellow Eaton, Merstham Yellow, Col. Appleton, Mrs.
Wm. Duckham, Golden Wedding, Golden Beauty.
RED—Intensity, \$3.00; Geo. W. Childs, \$3.00;
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above and other good varieties, \$.00 per 1000.

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CARNATIONS.

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of the following sorts, ferns all good
salable varieties.

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<i>Cyrtomium Falcatum</i>	<i>Serrulata</i>
<i>Pteris Adiantoides</i>	<i>Serrulata</i>
<i>Cretica alba lineata</i>	<i>cristata</i>
<i>Cretica magnifica</i>	<i>Serrulata</i>
<i>Hastata</i>	<i>variegata</i>
<i>Mayii</i>	<i>Wimsettii</i>

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\$10 per 100

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21.....	\$1.00

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2½ " ".....	.55	5.11	
3 " ".....	.65	6.15	
3½ " ".....	.78	7.18	
4 " ".....	.88	8.16	
4½ " ".....	\$1.00	9.20	
5 " ".....	1.12	10.23	
6 " ".....	1.30	12.25	
6½ " ".....	1.40	13.28	

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Extra Heavy No. 8 Galvanized
Wire for American Beauty
Roses, etc.

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4 ft. long.....	\$1.10	\$10.00	
4½ " ".....	1.25	11.50	
5 " ".....	1.40	13.00	
6 " ".....	1.60	15.50	

RAFFIA

Natural.....15c. per lb.
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SILKALINE

For stringing Smilax etc.
Three sizes, coarse to fine. Two-
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Per lb. \$1.25 Per spool 20c.

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8 " ".....	3.00
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1500 Richmonds, 3 inch, \$6.00 per 100; 3½ inch, \$8.00 per 100. 1500 of each size

3000 Brides } 3 inch, = = \$5.00 per 100

3000 Bridesmaids } 3 inch, = = \$5.00 per 100

7000 to 8000 American Beauties, 2½ inch, \$80.00

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1000 Lady Campbell Violet Plants, field grown,

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Clean, thrifty stock Demand brisk Wire orders safest

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Chestnut Hill

PHILADELPHIA

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John Waterer & Sons, Ld.

AMERICAN NURSERY

BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

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Lady Gay THE FAMOUS RAMBLER ROSE

2¼ in. Pots, \$10.00 per 100

3½ in. Pots, 12.50 per 100

Ready to Pot On or Line Out in the Field

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LADY GAY AND HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paenies. Hollyhocks and Phlox.

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ROSE SPECIALIST

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SEPTEMBER**

is the time
to plant

**EVERGREENS
PERENNIALS**

CATALOGUES FREE

Field Grown — Largest Variety in New England

The BAY STATE NURSERIES,

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Trees, Shrubs and Roses

In great variety. We grow about 1000 varieties Herbaceous Perennials. Estimates cheerfully given. Catalogues free.

NEW ENGLAND NURSERIES, INC.,
BEDFORD, MASS.

Lupines

(See Frontispiece.)

The genus *Lupinus* has about one hundred known species, but not more than two dozen are in cultivation, and the larger part of the two dozen are annuals. For convenience sake the genus may be divided into three groups, viz., annuals, perennials, and those of a sub-shrubby character.

The annuals are very showy and varied in color, growing in any ordinary garden soil and producing an abundance of showy flowers. They grow better and give more satisfaction if the seeds are sown thinly out of doors in the beds or borders where they are to grow and produce their flowers. Early May is the best time to sow the annuals. A selection would include the following kinds, *Cruckshankii*, *elegans*, *micranthus*, *pulchellus*, *tricolor*, *hybridus*, *densiflorus*, and *villosus*.

In the eastern states the arborescent forms are not hardy and at this time we are not so much concerned about them. The perennial kinds are of greatest interest to us as they make, most of them, exceptionally valuable border plants. Probably the most valuable of all the lupines, as a garden plant, is *Lupinus polyphyllus*, shown in the frontispiece of this paper. This is an old garden plant and has been in cultivation for many years, yet it is not overplentiful in our gardens. It is one of the easiest plants to grow when given a congenial place to establish itself. This summer I saw a nice colony of it growing in Mrs. Higginson's garden at Manchester, Mass. This lupine grows about four feet high and its flowers are produced on long stems well above the foliage. The flowers are usually deep blue but the color varies very much in different plants. This species has a white variety which makes a most satisfactory border plant and a charming companion to the blue kinds. *Lupinus Nootkatensis* makes a dwarf and compact plant and attains the height of about two feet. Its flowers are also blue. As a border plant *Lupinus perennis* is not as satisfactory as the last two species. It loves to grow in the poorest and driest soils.

With the exception of *perennis* the perennial kinds delight in a good depth of soil, into which they may root freely. They also like an open situation where they can obtain plenty of light and air. The perennial kinds are increased by division and by seed. They vary a good deal when grown from seed; therefore when one has a good form it is best to increase it by division. Most of the species come from Western North America.

Robert L. Cameron

British Horticulture

A GERMAN TOUR

Mr. J. S. Brunton is organizing a trip to Germany, and it is expected that a representative party of British growers will participate in the excellent facilities afforded at a charge of about \$5 a day. The itinerary has been framed with a view to making the best use of the time at the disposal of the travellers who will be absent from London ten days. The places to be visited include Cologne, Konigwinter, Rudesheim, Mannheim, Darmstadt, Frankfort, the middle Rhine, Mayence, Coblenz, etc. The journey is so arranged that visits will be included to all the leading nurseries of the districts; the notable palm-houses of Frankfort, the spacious glass houses of Dans, Reuter & Co., Goos and Koerner, and the great international exhibition at Mannheim will be seen. Judging from the hearty reception accorded to a party of English editors when they recently visited Germany, it may safely be predicted that there will be nothing lacking in the cordiality extended to the British horticulturists.

NOVELTIES AT HOLLAND HOUSE

At the successful show held by the Royal Horticultural Society at Holland House, Kensington, awards of merit were granted to the roses Goldfinch and Lady Helen Vincent, which had also obtained honors at the National Rose Society's show. Messrs. Lowe and Shawyer obtained an award for their new H. T. rose, Joseph Lowe, which is a sport from Mrs. W. J. Grant. This is of a handsome shape and the outer petals are an attractive shade of pink. Messrs. Alexander Dickson and Sons secured four awards for their roses. These were for Lady Helen Vincent, Souvenir of Stella Gray, a Tea variety of a bronze tint; Mrs. Munt, a creamy-white H. T.; Mrs. Harold Broeklebank, another creamy-white H. T., resembling the Duchess of Portland. There were three new sweet peas which secured awards. Messrs. Dobbie & Co. showed another addition to the many flowers of the Countess Spencer type. This has been named Princess Victoria, at the request of Her Royal Highness, who admired the bloom when it was exhibited at the Rose Show. The petals are suffused with pink on a white ground, and the bold blooms are borne on useful long stalks. Mr. C. W. Breadmore, who has raised a number of sterling novelties, showed a picotee flower of the Countess Spencer type. The margins of the petals are edged with rose, which changes to almost pure white in the centre of the bloom. Messrs. Hurst and Son had a new variety, St. George, of an orange tint, with waved standards.

W. H. Adsett.

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NO. 4

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portunity thus afforded to consider and plan ways and means for the betterment of his business in the coming season. It has been truly said that he who makes no progress forward is in reality going backward. There are big openings ahead for anyone willing to use his eyes in the right direction.

As every one who has attended S. A. F. conventions in recent years knows, the trade exhibition has come to be probably the most im-

portant and generally appreciated feature of the convention. Each year brings its quota of new appliances intended to increase the efficiency and convenience of every operation connected with plant culture, the best of the new plant introductions are placed on inspection and an infinite variety of novelties in goods for florists' use is sure to be forthcoming in increasing proportion at each succeeding exhibition. Unlike the displays at ordinary horticultural shows, here each exhibit is in charge of attendants ready and anxious to explain the merits and comparative points of excellence. To fully convey to the mind of anyone who has never attended these exhibitions a clear idea of the advantage gained by a leisurely inspection of this vast amount of useful, up-to-date material is simply out of the question. "It must be seen to be appreciated." Certainly no one engaged in any line of horticultural work can hold aloof and still expect to advantageously compete with those who make the most of these opportunities. The outlook is very bright for an exhibition at the Philadelphia convention excelling any of its predecessors and intending exhibitors should not delay in securing space. We are informed that it is being rapidly taken up.

Some work ahead for the S. A. F. The prevalent opinion seems to be that the convention at Philadelphia will be a big one in every respect. The belief

is probably well-founded even though, as it appears now, some hardship may be experienced in the matter of railroad rates and the attendance from some sections reduced in consequence. Fortunately, however, for many the Jamestown Exposition excursion rates will be conveniently available and, in point of numbers, the meeting is likely to be a surprise. There are other and, at the present stage of the society's career, more important things than large attendance, boundless hospitality and hearty enthusiasm, that will have a strong bearing on the final verdict as to the value of the convention of 1907. It is generally recognized, we think, that the S. A. F. has got beyond its kindergarten period and must take up in a serious and thorough manner subjects of broad import which have a direct bearing upon the healthy development of our commercial interests. Our most intelligent and prosperous business men must be enlisted to work for the society, to frame wise policies which, in its capacity as their representative organization, it may adopt and follow up to a successful conclusion. The attitude of the horticultural interests as to tariff on glass, bulbs and certain other commodities should be defined by something more than a few spasmodic utterances at a convention session. Questions of transportation and express rates, the teaching of horticulture in the public schools, plant nomenclature and registration, the mail order trade, park control and many other subjects, professional or semi-public in their

Looking forward In this period of relaxation from business cares—vacation days practically forced upon many by the cessation of all call for their services or their products, the ambitious, diligent man will not fail to take advantage of the op-

character, stand in line for consideration by our national society and much can be done, under wise guidance towards their solution.

Boston's "Old Home Week"

We referred briefly in our issue last week to the approach of Boston's "Old Home Week" and our pleasure in the prospect of

a visit from as many of our horticultural friends as might come to Boston on that joyful occasion. We here repeat the invitation and hope to see many take advantage of the opportunity to see the old town at her best. Not alone the city but her far-famed suburbs will be arrayed in the glory, not only of bunting and electric lights but of midsummer verdure and sylvan beauty. Her unrivalled parks in all their natural and artistic loveliness will well repay the effort of a visit no matter how great the distance may be. Boston is "Old Home" in many respects other than as one's place of birth. In common with one or two other centres she holds the distinction of having nourished American horticulture in its infant days. Here ever since, under the protecting wing of the Massachusetts Horticultural Society, has horticulture found a hospitable home and from here have emanated example and impulse which have exerted a mighty influence in the upbuilding of American gardening and floral art. Scores of the greatest public parks and most noted private estates, from the Atlantic to the Pacific, bear the imperishable imprint of Boston genius. The death blow to stiff, clumsy and unnatural floral arrangement was struck in Boston and here the beautiful art of floral decoration as now practiced all over the land had its birth. There is not and never has been much of the gigantic in the composition of the Boston brand of municipal or individual ambition, but the New England metropolis stands well in what she has accomplished and she is essentially Old Home for much of the best in American home and business life as we find it today.

The Show at Holland House

The show of the R. H. S. of next importance to that in the Temple grounds, took place on the 9-10th inst., in the paddock adjoining the historic mansion of the celebrated statesman and notorious gambler, Chas. J. Fox; a name interesting to Americans, because it was his opposition to an obnoxious bill of Lord North's, relating to the port of Boston, which led to the American Revolution. The tents are pitched in the paddock at the back of Holland House, where, rumor says, Fox's favorite race horse, Pantaloon, was turned out to grass to end his days in peace, after winning for his master no less than £28,000 in one year.

What changes are wrought by the whirligig of time—now an American heiress rules the mansion—and a peaceful show of flowers takes place in the grounds, the only military element being the fine band—conducted by Lieut. Charles Godfrey—discoursing sweet music. By kind permission of the tenant the house is thrown open to visitors on the show day for a small fee, which goes to the admirable gardeners' orphan fund. Those that are fond of old furniture can wander through the state-ly rooms, including the cozy dining room, where John Timbs relates that Fox and his brother, the elder not yet 25, lost in three nights the sum of £32,000. But here he died in poverty, owing immense sums to the Jews, his tradesmen, to Walpole and others of his friends.

Entering the grounds by a badly-kept gravel road, flanked on either side by elms and common shrubs, the

first marquees are reached. Carter & Co. had a small tent to themselves just by the entrance, but the only thing on view worth notice was some well filled pots of their new pea "Quite Content"—certainly a good one to look at as one can desire if only the flavor be right. Sunrise tomato is a handsome sort and a good cropper. J. Veitch & Son had among other things a fine lot of orchids, some good American cannas, as Louisiana and Ottawa, a promising lobelia of an intense blue with large white eye, named Dorothy Dixon, and Croton Reidi—one of the best and richest colored—the group finished off by plants of the new *Angelonia salicifolia* and alba. There was a glorious bank of orchids from Sander & Son, most notable among them being *Cattleyas Mossae*, *Wagneri* and *Reichmanni excelsa*, and *Laelio-Cattleya*, "Martineti Empress." H. B. May put up (or down) a lovely bank of choice ferns, including a new *Lygodium Japonicum*, *Polypodium Mayi*, *Doryopteris nobilis* and other fine new kinds. Messrs. Charlesworth took the lead in orchids—lovely *laelio-cattleyas*, in all colors, and white and fine *cypripedes*, mostly hybrids.

As quite a relief to the eye after all this splendor, a lot of cool selaginellas, from Gurney Fowler, must be noted. Paul & Son followed with a fine lot of roses, including the pretty new ramblers "Goldfinch," the Gipsy and Wedding Bells. Also a bunch of the distinct and lovely China, Laurette Messimy and the very dark *Polyantha Ne Plus Ultra*, while a tall plant of the singular thorny *pyracantha* attracted much notice. Veitch had fine *Malmaison* carnations. Yaller Gal is yet the only true yellow in this class.

H. B. May put up the grand *heliotrope* "Lord Roberts and Ixoras Westi and macrothyrsa. His double *Zonals* were very fine, also some new colors in the *Cactus* class, as *The King*, *The Countess* and *Herbert Greenhill*. Low & Co. staged fine *Malmaisons*, one *Mercia*, a fine salmon, which the King selected for his buttonhole at Lincoln R. A. S. *Lady M. Hope* is really a fine thing and the dark *Maggie Hodgson*. New roses were *Commandant Felix Faure*, *Pharisaer*, *Gustave Greennerwald*, *Betty* and the exquisite *Irish Elegance*. The chaste *R. sinica Anemone* was in Paul's group.

G. Bunyard & Co. put up some healthy well-fruited cherries in pots, *Noble*, *Windsor* and *Bohemian Black*, also a tray of about forty sorts of strawberries and plates of black currants—*Gloire de Boskoop*—the only one that up to now has defied the mite. Quillim's begonias were again to the fore—some of the singles being six inches in diameter yet full of substance—*Mary Quillim*, *Pride of Eltham* and *Avalanche* the best white, while they also showed how well some kinds do for hanging baskets. Jarman (Chard) again showed his lovely new *sultans*, *Bride and Bridegroom*, *Bridesmaid* and *Honeymoon*. Sutton & Sons, under their own canvas, had exquisite masses of *Nemesia stramosa* of every color, and under a glass shade some fine *gloxinias* and *begonias*.

There were some fine out-door groups: *Cripps & Son*, mostly maples; Veitch, novelties from *N. China*, as *Lonicera tregaphylla*, *Vitis Thompsoni*, *Lonicera grata* and *Fremontia Californica*; L. R. Russell, a fine lot of ivies grown on standards and pyramids; coniferae, etc., almost filling one tent; Amos Perry, well arranged pondlets, filled with *nymphoeas*; and Artindale Sheffield put up pots of *Davison's* new *monthretias*, *King Edward*, *Prometheus* and *Westwick*—all great advances.

Thomas Bunyard.

NEWS OF THE CLUBS AND SOCIETIES

NATIONAL NUT GROWERS' ASSOCIATION.

The arrangements for our 1907 convention are so far perfected that we are able to announce that the Jamestown Exposition has been selected as the place and September 26-28 as the date for holding same. This date is concurrent with the meetings of the American Pomological Society and the Horticultural Congress, both of these important gatherings being held there during the earlier days of the same week. Present indications are that headquarters will be at the Inside Inn, with hotel accommodations there for those who prefer this location.

A most valuable and interesting program is assured, while the wide extent of territory from which the list of distinguished speakers is drawn furnishes a most convincing proof of the national importance of our organization and the industry it represents.

Prof. J. E. Wickson of California, and Mr. Henry E. Dosch of Oregon, will speak for nut culture on the Pacific slope; Col. Chas. A. Van Duzee of St. Paul, Minn., will show how the business interests residents of our most northern states; Prof. L. H. Bailey of Cornell University, will deliver an address; Prof. John Craig, also of Cornell, will make observations on the pecan; Dr. Robert T. Morris of New York City, will show the great value and wide distribution of the shagbark hickory; Prof. C. P. Close of Maryland, will tell about nut culture in that state, where the chestnut is the most prominent nut; Prof. H. K. Miller of Florida, will have for his theme, The Science of Nut Culture, and Prof. H. Harold Hume, of the same state, will give an object lesson in application of the scale of points in grading pecans; Mr. H. C. White of Georgia, will talk on Economic Horticulture, while several other attractive features, partly from the Southwest, are not yet ready for announcement.

The President's address and reports of the standing committees are certain to be of great importance.

The large number of leading horticulturists who will attend the several other attractive features, partly from the Southwest, are not yet ready for announcement.

The President's address and reports of the standing committees are certain to be of great importance.

The large number of leading horticulturists who will attend the several gatherings that week, the Exposition itself and the accommodations for visitors, as well as the low railroad rates from all parts of the country, combine to make an interesting prospect for a large and profitable meeting. Our members, as far as practicable, are expected to attend.

The members of the American Pomological Society are cordially invited to be present and participate in the exercises. All horticulturists, especially those interested in nut culture, will be heartily welcomed.

Subsequent notices and program will appear in due time.

F. H. BURNETTE, President.

J. F. WILSON, Secretary.

Poulan, Ga.

NEW ORLEANS HORTICULTURAL SOCIETY.

The annual meeting of the society was held at Kolb's hotel on July 17, the election of officers being the principal business. Charles Eble was chosen president, Henry Cook, vice-president; John Eblen treasurer for the twenty-third time; C. R. Panter secretary. A. Alost, at whose home the annual barbecue is given, reported that the young pig "Harry," selected for this year, was doing finely. The committee in charge of arrangements for the chrysanthemum show, November 10-15, reported that the schedule of prizes had been distributed. The secretary was instructed to notify the New Orleans Floral Society of the progress being made. The reports of secretary and treasurer showed respectively a membership of 50 and \$800 in the treasury. Among the exhibits were a fine specimen of *quisqualis*, one of three known plants in this city, plucked from a vine 150 feet long by treasurer Eblen; canna, a seedling from Mont Blanc, the nearest to white yet obtained, by C. W. Eichling. After business was completed a spread followed.

ST. LOUIS FLORIST CLUB.

The meetings of the St. Louis Florist Club have of late been better attended than ever before; the cause is the social features that have been provided. The club has voted to do away with holding annual flower shows as the Horticultural Society has taken this up. The late smoker, the interesting discussions, the picnic and the outdoor meeting for next month at Shaw's Garden all tend to interest our members who are much pleased that the Horticultural Society has undertaken the hard work of giving flower shows, leaving us the social features. We hope all will work with a will and hand in hand to make the flower show a success this fall.

ST. LOUIS HORTICULTURAL SOCIETY.

The executive committee of this organization held a meeting in the rooms of the Mercantile Club. The principal matter before this meeting was arranging for the November flower show. Should the new Coliseum be ready by that time the society will try for the opening event, which, of course, would be a big drawing card and no doubt a financial success. A spring flower show is also contemplated. The preliminary list of premiums has been issued and copies can be had by applying to the secretary, O. G. Koenig, at 6473 Florissant avenue.

THE SHAW BANQUET.

Invitations are out for the eighteenth annual banquet given under the will of the late Henry Shaw by the Missouri Botanical Garden, St. Louis. This banquet is for gardeners, florists and nurserymen, and will take place at the Southern Hotel, August 14, at 7 P. M. This is the first time the banquet has been held at the Southern Hotel.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Committee on Gardens of the Massachusetts Horticultural Society invites the attention of owners of estates in Massachusetts to the premiums offered by the Society for the encouragement of the horticultural development of private grounds.

There is an impression abroad that these premiums are intended only for large estates, but in recent years the committee has so arranged the schedule that all classes of private gardens and grounds are eligible, as the following list of prizes offered will show.

The H. H. Hunnewell Triennial Premium of two prizes, \$160, and \$80, is offered for an estate of three acres or more, and special prizes of \$50 and \$25 are offered for an estate of from one to three acres.

For still smaller places of from five thousand to twenty thousand square feet two prizes, the first a silver medal and \$10 and a second of \$10, are offered for the best flower garden and also for the best vegetable garden.

For the best garden of hardy roses are offered two prizes of \$30 and \$20 and the same is offered for the best peony garden.

Entries can be made at any time during the season up to September 15, excepting in the rose and peony classes which, of course, must be visited when in flower.

In making examinations of smaller estates and gardens the committee pays a good deal of attention to tasteful arrangement and to the general economy and thrift displayed, especially in regard to the neatness of the grounds.

The committee this year is composed of Charles W. Parker, chairman; Oakes Ames, George Barker, Wm. N. Craig, Wm. H. Elliott, A. F. Estabrook, A. H. Fewkes, J. A. Pettigrew, W. W. Rawson, Wm. P. Rich, H. P. Walcott, and S. M. Weld.

Wm. P. RICH, Secretary.

Sweet Pea Show.

Saturday, July 20, was sweet pea day at Horticultural Hall. Always one of the most beautiful of the summer shows this sweet pea exhibition is looked forward to with much interest, not only by the sweet pea enthusiasts of whom there are many in Boston, but by the public generally and on this occasion the attendance was very heavy, especially on Sunday afternoon, the show having been kept open over Sunday according to present custom here. The pea exhibits occupied the centre of the hall. N. F. Comley won three firsts and three seconds; Thomas Howden five first, one second; E. L. Lewis one first, one third; Wilfred Wheeler two seconds and one third; Wm. Reed one second; A. E. Hartsborn four thirds; Mrs. F. S. Dehue one second; O. B. Kenrick one second, one third, Joseph Thorpe two thirds. The varieties winning first prizes in the special color classes were as follows: white, Dorothy Eckford; blush, Gladys Unwin; rose, John Ingman; blue or purple, King of the Blues; lavender, Mrs. Geo. Higginson; red or crimson, King Edward VII; orange or

salmon, Helen Lewis; any other color, Shazada.

Among the other striking exhibits which filled the remainder of the hall were superb collections of hardy herbaceous flowers from: Blue Hill Nurseries, Bay State Nurseries, R. & J. Farquhar, F. J. Rea and Mrs. J. B. Lawrence; a beautiful arranged tank of aquatic plants and flowers from Harvard Botanic Garden; a gorgeous collection of Japanese irises from R. & J. Farquhar, and miscellaneous exhibits from several regular contributors.

First-class certificates were awarded to H. H. Rogers, gardener James Garthly, for an unprecedentedly fine display of stocks and to James McKissock for new delphiniums. W. W. Rawson was given a cultural certificate for *Delphinium Zalil* and George E. Davenport honorable mention for variegated nasturtium.

In the fruit line there were some luscious examples. Wilfred Wheeler won first prize for a charmingly arranged exhibit, which included boxes of currants and gooseberries and large branches of currants, raspberries and thimble berries; also a second prize for a tasteful combination of cherries, strawberries and currants. Currants and gooseberries were displayed in abundance by several exhibitors. Vegetables were also well shown and the Boston Mycological Club was out in full force with exhibits of mushrooms and other fungi.

FRENCH NATIONAL CHRYSANTHEMUM SOCIETY.

The annual show and convention of the above society will be held this year at Toulouse. As a result of the meeting at Caen last November it has been decided to publish a little cultural guide for the use of members and others, and the work is to be put up for competition. All manuscripts must be sent in by July 15 and must not exceed 30 pages of printed matter in 12mo. A committee will be appointed to adjudicate upon the manuscripts and the sum of 100 francs is allotted as a prize for the best treatise.

The program of the convention has been drawn up and issued. It contains questions relative to packing, sports,



Table of Decorative Foliaged Plants at the Newport Show, by D. McIntosh.

seeding the chrysanthemum, diseases, etc. The opening day is fixed for the 5th November. C. H. P.

THE FRENCH ROSE SOCIETY.

The 11th annual convention of this society was held at Clermont-Ferrand on June 15th last.

As usual, there was a large attendance of members and rose growers generally. Monseigneur Christophe presided and among the subjects dealt with were papers on Classification, the origin of Hybrid Perpetuals, the best novelties of 1904, treatment of diseases, etc.

It was agreed that next year's convention be held at Dijon.

CLUB AND SOCIETY NOTES.

The N. H. Horticultural Society met at Monadnock with Mr. Leighton on July 18, for its summer gathering.

The thirty-first annual convention of the Georgia State Horticultural Society will be held in Augusta on August

7 and 8. P. J. Berckmans is president, L. A. Berckmans treasurer.

The New Haven Horticultural Society (Conn.), will hold its annual outing on August 1, and has invited the Connecticut Horticultural Society to join them.

The Saratoga Floral Association organized in 1896, whose floral fetes for several years were notable in Saratoga, N. Y., has just been dissolved by the Supreme Court, leaving debts of about \$3400.

The El Paso Horticultural Society of Colorado Springs, Colo., will hold an exhibition on August 21, 22, 23. Carl U. Fohn, head gardener for Gen. W. J. Palmer, J. A. Valentine, Hon. A. D. Mauff, Geo. Fleischer and G. Hennenhofer are selected as judges.

The Intertown Dahlia Association was organized at the residence of P. E. Carmody, Ansonia, Conn., on July 12., with officers as follows: Pres., F. H. Cooper, Seymour; vice-pres., Edward Lewis, Derby; sec'y., D. H. Palmer, Ansonia; treas., Archie Davidson, Ansonia. A show to be held in Ansonia the last of September is a prospective feature.

The first horticultural show among the summer residents at Lake Forest, Ill., was held on July 13, and created so much enthusiasm that it promises to be an annual feature. Extensive collections of hardy perennials, decorative plants, ferns and evergreens were in evidence and the vegetables were no less attractive. W. C. Egan, E. A. Kanst and W. N. Rudd were the judges and nearly a hundred first-class prizes were distributed.

Japanese maples are said to be fruiting much more freely in England this season than ever before. The fruit adds greatly to the decorative value of the plants at this season.



First Prize Collection of Roses at the Newport Show, by James Robertson.

THE S. A. F. CONVENTION

CONVENTION RATES TO PHILADELPHIA.

There has been considerable uncertainty regarding reduced railroad rates for all organizations, owing to the two-cent rate agitation. In quite a number of states the two-cent rate has been made a law.

I made application to the Trunk Line Association (in whose territory Philadelphia is situated) asking for a reduced rate of a fare and a third for our session. After considerable correspondence, the Trunk Line Association and New England Passenger Association granted the reduced rate and so informed the various other Passenger Associations. I also placed myself in communication with these Associations, but up to the time of the date of this letter I have received no word from any of the Associations, excepting the Central Passenger Association, and this Association would not grant the reduced rate of fare and a third, although I was in personal communication with the officials of the Association.

The only concession which I could obtain from the Central Passenger Association is as follows:

They will charge a two-cent rate in all the territory under their jurisdiction, but at the same time will provide tickets, which will cover a rate of fare and a third in the territory governed by the Trunk Line Association; in other words, a ticket can be purchased in any city covered by the Central Passenger Association through to Philadelphia, but the fare will be at the rate of two cents in the territory covered by the Central Passenger Association and at the rate of fare and a third in the territory covered by the Trunk Line Association.

I would further inform you that this special concession covering the selling of a ticket through to Philadelphia is made only on the following conditions:

The Central Passenger Association will provide a supply of standard card orders. These to be furnished to me, and I will, upon application to me by our members, send such cards as may be necessary for their use.

You will understand that the reduced rate covering the selling of a through ticket to Philadelphia, can be obtained, only through the use of the CARD ORDER, as received from me, and these Card Orders cannot be used by any person except members of our Society, or those attending our convention.

If you desire to travel in the territory of the Central Passenger Association,—and necessarily you must go through the Trunk Line Association—be sure to obtain from me in advance a CARD ORDER.

As I have stated to you above, I have been able to secure a concession only from the Trunk Line and New England Associations at one and one-third fare rate, and from the Central

Passenger Association of a two-cent rate in their territory, with a through ticket covering the territory of the Trunk Line Association to Philadelphia. It is possible that I may hear from the other Associations; and if so, I will furnish the information direct to the papers at the earliest possible moment.

I would call your attention to the reduced rates as granted by all the railroads to the Jamestown Exposition. In case concessions are not made by the other Passenger Associations, I would suggest that you make inquiry at the railroad office in your city as to the cheapest and best way to get to the session, and at the same time take in the Jamestown Exposition. These special tickets will permit you to stop over in Philadelphia and New York.

P. J. HAUSWIRTH, Secretary.

ST. LOUIS TO PHILADELPHIA.

The St. Louis Florist Club has made special arrangements for transportation to Philadelphia for the S. A. F. Convention, via Pennsylvania Railroad. The round trip rate will not exceed \$25. A special car has been arranged for, and berths may now be reserved in same by addressing William C. Young, 5512 Waterman avenue. The sleeping car fare is \$2.50 each way. All who wish to do so are cordially invited to travel from St. Louis with this party. It is expected that many from further west will travel on same train from St. Louis on. The St. Louis delegation promises to be large and a pleasant time is assured. State Vice-President Young has a way of entertaining in home-like fashion. Any local or out-of-town florist who has any intention of going with St. Louis should let Mr. Young know at once as he is the proper person to apply to for any information on convention matters.

S. A. F. LADIES' AUXILIARY.

The secretary of the Ladies' Auxiliary of the S. A. F. would be pleased to register as many members and send pins to as many as possible before date of convention, as the pins will enable members to identify each other quickly. Address Mrs. Charles H. Maynard, 219 Horton avenue, Detroit, Mich.

THE INTRODUCER OF THE CHRYSANTHEMUM.

In your issue of December 29 last I referred to a fund having been started here to help the two grand-daughters of M. Pierre Louis Blancard, who introduced the chrysanthemum into Europe in the year 1789. These old ladies have been living in England for many years, and are as before mentioned in feeble health and straitened circumstances. It is gratifying to be enabled to record that the result of the joint appeal of my colleague and myself has resulted in the sum of \$240.00 being collected to relieve the present necessities of these poor old ladies.

The fund has been subscribed to by French, English, Scotch and Belgian admirers of the popular autumn flower.

C. H. P.

A LETTER FROM THE GINGER JAR

Dear Mr. Editor:—What with the Elks and the rain and John Westcott the past week in Philadelphia it has been unusually strenuous. To add to the excitement we have had President Stewart and Secretary Hauswirth on our hands and their anxiety to see whether all the convention fences were in proper repair has kept the local people keyed up to the highest pitch. We are confident we have sent all hands home feeling buoyant as to the prospects for a good time in Philadelphia Aug. 20th to 24th. Our local Florist Club members headed by President Pennock have been working quietly but effectively on the details, and a successful convention is assured. The president's reception on Tuesday evening at the Broad Street Theatre will be enlivened with music and refreshments and with a moving picture show appropriate to the occasion. The ladies will be taken on a special trip to Willow Grove and on the Friday there will be a grand finale in the shape of a trip to Belmont Mansion in Fairmount Park, winding up at that point with a banquet. Sandwiched in between will be the bowling and shooting, ably presided over by Messrs. Graham and Cartledge respectively. I was almost forgetting one of the best features of all, namely the trip up the Delaware River by boat to the Dreer Nurseries at Riverton. This will take place on Wednesday and will be very enjoyable. The good people of this good old town are really worried more with what not to than what to give our visitors. We have so much to show—from Independence Hall and Betsy Ross and Bartrons Gardens, to the Mint and Fairmount Park and Girard College and Cramp's and Carpenter's Hall and hundreds of other places that come crowding to our minds when we think of it—that we are buried in a plethora of good things and have to pick out only a few and be content with suggesting the rest. On one point we are agreed; we will not attempt to entertain too much, but will maintain the happy medium of enough, with a hearty welcome, and leave our guests a little time to disport themselves in accordance with their own sweet wills. Now, Mr. Editor, you have been with us and have caught our spirit and I trust you will tell the whole country through Horticulture just how the prospects are for the Philadelphia meeting and assure them that Mr. Penn with Mrs. Penn and the whole Penn family have the latch string out and that "the more the merrier" will be the slogan.

G. C. WATSON.

Prof. Stone of the Massachusetts Agricultural College accompanied the officers of the gas light company to Ludlow, Mass., to examine the elm trees said to have been poisoned by gas, and suggest the remedy.

Complaint having come to the Board of Public Works, Poughkeepsie, N. Y., that many trees about the city were in a dangerous condition, it has been decided to have a forester examine them in the hope that some of them may be preserved.

MASSACHUSETTS AGRICULTURAL COLLEGE.

SUMMER SCHOOL OF AGRICULTURE.

An analysis of the attendance at the summer school now in session at the Massachusetts Agricultural College shows that the enterprise has much more than a local character. In an enrollment of 203 (more still registering) there are 32 from outside the State. The largest foreign delegation is from Connecticut and numbers thirteen. New York and Vermont send four each; Pennsylvania three; while a single representative is present from each of the following States: Alabama, Georgia, North Carolina, New Jersey and Rhode Island.

The 171 registrations from Massachusetts show a very interesting distribution. Seventy-five towns and cities are represented, Worcester leading with a delegation of 21. Other large groups come from Springfield, 15, and Brockton 11. Amherst also sends 11, Boston sends 6. Among the smaller cities and towns No. Adams and Lawrence lead.

It might be expected that western Massachusetts would be the chief beneficiary of a summer school at the Massachusetts Agricultural College. The figures show, however, that there are 43 enrolled from the western counties, 48 from Worcester county, and 80 from points east of Worcester county. It is plain, therefore, that the State as a whole has been pretty well covered.

Ten per cent. of the pupils are men. While this looks small it is in reality disproportionately high, since among the whole number of teachers in service somewhat less than five per cent. are men.

PERSONAL.

Julius Roehrs sailed on a short European trip on July 24.

Visitors in Boston: Daniel MacRorie, Orange, N. J.; I. Rosnosky, Philadelphia, Pa.

John Scott of Flatbush, N. Y., sailed on Saturday, July 20, on Red Star steamer Zeeland.

S. Tokuda of Yokohama Nursery Co. sailed from Seattle for Japan, on July 23, to look after his shipments.

Visitors in New York: W. Clark of Pittsburg Cut Flower Co. and Mrs. C. A. Williams of Pittsburg, Pa., A. T. Vick, Albion, N. Y.

Fred S. Cooley, who for several years has been assistant professor of agriculture at the Massachusetts Agricultural College, has accepted a position as supervisor of the Farmers' Institute of Montana at Bozeman, that State. Professor Cooley will begin his duties there Sept. 1.

Frank McMahon, of Seabright, N. J., famed as a rose grower for the New York market, has been elected mayor of Rumson, the richest borough on the Jersey Coast. We have the honor of Mayor McMahon's acquaintance and can heartily record our approval of Rumson's choice. The town is to be congratulated.

Many electric storms, some accompanied by hail, have done much damage to trees, crops and greenhouses, throughout many districts during the past week.

AN AMATEUR'S SUCCESS.

Horticulture Publishing Co.:

Gentlemen.—I herewith enclose a photograph of a *Cattleya gigas* Sanderiana. The plant is a small one of twelve bulbs and bearing five flowers on one spike and three on another, said flowers measuring ten inches from tip to tip. The plant is one that I bought from an importation last year and I feel very proud of flowering this plant when we take into consideration that I am an amateur and it was only three years this coming October that I started a collection of orchids and I have, at the present time, two thousand three hundred plants and over four hundred varieties.

I wish further to state I take entire *Cattleya labiata* of thirty bulbs with work outside of my business hours. At the time I started this collection I had seen very little of orchids and knew absolutely nothing about their care or handling, but have had fine success in flowering my plants and have lost, during said period, only six plants.



Cattleya gigas Sanderiana.

I have, at the present time, one *Cattleya labiata* of thirty bulbs with fourteen new growths. I also have a few specimen plants, one of *Cattleya Mossiae* of one hundred and thirty bulbs, one of *Cattleya Schroederiae* of forty-six bulbs and one of fifty-two bulbs. I also have a large specimen plant of *Cattleya Bogotensis*, *Cattleya Chocoensis* and *Percivaliana* and others. At the present writing I have a plant of *Cattleya Gaskelliana* of a very fine type, which I expect to have named shortly. The plant has four flowers in bloom and seven buds.

I am giving you this information so that you may, if you see fit, publish the facts to show what an amateur has accomplished simply by making a special study of the plants and by using good common horse sense, hoping it will be the means of starting others in the growing of orchids, for I find more pleasure and more satisfaction in growing orchids than I did in other plants.

I wish to state in speaking of this *Cattleya gigas* Sanderiana, the picture of which is enclosed, that experts have seen this plant and pronounce same the largest flower they have ever seen.

O. A. MILLER.

East Orange, N. J.

REVIEW OF NEW BOOKS.

THE BOOK OF WATER GARDENING. By Peter Bisset, Twin Oaks, Washington, D. C. A. T. De La Mare Printing and Publishing Company, Ltd., New York, Publishers. Price postpaid, \$2.50.

When it came to our knowledge that Peter Bisset was writing a book, we knew that it would be a book worth having, the work of a sincere, painstaking and thorough man. And here is a subject on which probably no gardener in this country is so well qualified to speak. It was with more than ordinary interest that we opened this elegant book, faultless in its typographical make-up and binding and profusely illustrated with beautiful half-tone engravings, and we found it to be just what we expected—a complete treatise on every phase of practical aquatic gardening. The book comes at an opportune time, and will be welcomed by all interested in this fascinating and healthful phase of garden work.

Mr. Bisset is superintendent of the beautiful estate, "Twin Oaks," belonging to Mrs. Gardiner G. Hubbard, at Washington, D. C., and has been a lifelong student of this class of plants, having first become acquainted with them in his apprenticeship days in the Earl of Rosebery's gardens at Dalmeny Park, Scotland. He has originated some of the handsomest seedling nymphaeas now in cultivation, and has under his charge at the present time one of the largest and most complete water gardens to be found in the United States. It can safely be asserted that never before has the subject of water gardening been so concisely yet so fully and interestingly treated as in this book. It should be in the hands of every admirer of aquatic plants.

A MOTH SCHEME WHICH IS A FAILURE.

Local scientists have discovered by experiment that it does not follow that because a moth can be lured to death by the evening lamp, the whole tribe of gypsy and brown-tail pests that now torment Massachusetts can be exterminated with the aid of a few glowing arc-lights.

Moths in plenty fly into the lights, but the experimenters have found that they are overwhelmingly of the male sex. At Belmont, recently, Prof. William Lyman Underwood set up two large wire frames, covered with cloth to which were attached sheets of sticky fly paper. Suspended in the glare of powerful arc lights for two weeks, the trap enticed to their destruction 2,104 moths, only 68 of which were females.

Another experimenter is James H. Bowditch, of Brookline, who used boards covered with fly paper and placed them around trees within range of powerful lights. Examination of the result by Inspector Joseph Sylva, of the moth commission, showed for 32 traps a yield of 1,630 moths, of which only 51 were of the female sex. Other experiments disclosed a percentage of 94.8 males to 5.2 females.

Entomologists agree that the coyness of the female brown-tail moth in presenting herself for annihilation, whether due to abnormal prudence or only to excessive domestication, is fatal to the scheme for allowing the pest to exterminate itself.

THE PEONY.

Address of J. Elliot Coit before American Peony Society, Ithaca, N. Y., June 27, 1907.

(Continued from page 77.)

Type II, the Japanese.

When a peony begins to double under the growth pressure brought about by an excess of food, it may do it in two ways. It may present in the same flower stamens or carpels in all stages of transformation, or it may uniformly widen the filaments of all the stamens simultaneously. As a result of this second method, we get the true Japanese type. It possesses the petals of the single with all of its stamens uniformly widened into strap-like petaloids with anthers distorted in various ways. It usually has normal carpels. Many writers seem to hold the erroneous notion that Japanese peonies are the progeny of some one species. C. S. Harrison in the second edition of his *Peony Manual* talks about the wonderful possibilities of the "new race" of Japanese peonies. This is not a "race" at all according to the definition of race as given by Professor H. J. Weber of this University, for this type may and does appear in several species. It simply represents one method or step in petaloidy of the stamens of any species. It is a horticultural type and is entitled to no botanical standing whatever. Example: *Glory*. (Illustrated on the cover of the *Peony Check-List*.)

Type III, the Bomb.

The bomb is one step beyond the Japanese. The guard petals are still well differentiated from the petaloids, but the petaloids are much wider and no vestiges of anthers should be found upon them. They may have increased in number beyond the original number of stamens by chorisis of the cords. In the typical bomb, the follicles should be well concealed. I regard *Chas. Binder* as a good example of this type.

Type IV, Semi-Double.

Into this type we group those forms which have begun to double without any system. They present in the same flower both stamens and follicles in all stages of transformation. They are usually loose flowers of little character, and in general are undesirable. They are common in any batch of seedlings, especially the semi-double reds; and I am perfectly safe in saying that far too many of them have been given names and places in our lists. It is in this type that the greatest confusion of names exists, and we may find it necessary to use somewhat drastic measures in bringing this group into anything like satisfactory shape; and much is yet to be done before anything like success is achieved.

Type V, the Crown.

When the Japanese type retains its narrow petaloids but transforms its follicles into wide petals which resemble the guard petals, we have a two-story effect which is unique and

for which I propose the name *Crown*. The *Crown* may be of two kinds: erect crown or reflexed crown. *Princess Beatrice* (Kelway) is a very good example of this type.

Type VI, the Rose.

The rose type represents the fullest development of which the peony flower is capable. It is fully double, with all stamens and carpels transformed into petals with no vestiges of anthers present and no follicles. Few examples of the rose type will be found which do not show vestiges of follicles, for the crimson flecks present in *Festiva maxima* and *Avalanche* represent the only remains of the lost follicles. These crimson flecks are very common among flowers of this type, and may be found in the double reds on close examination. In the typical rose form, the guard or primary petals should not be differentiated from the rest; but this is not essential. A good example of the rose type is *Avalanche* (Crousse).

How Confusion Has Arisen.

The confusion in the names of peonies of which so much complaint is made, has arisen in several ways. Most important of these is the habit of making inadequate descriptions. As an example I may say that the description we have of *Mons. Bellart* (Delache, 1850) consists of two words, "clear purple." Today when we have such a large number of varieties on the market, such a description is useless and any description is inadequate which does not give the color, size, season, and horticultural type, together with the species to which it belongs. Other causes for confusion are the poor attachment of labels to the roots, and illegibly written labels. Then, too, the lack of a check-list has resulted in the same name being used over and over again for different seedlings. And then a certain amount of renaming of old varieties for purposes of pecuniary gain has been indulged in by irresponsible growers. I hope that the check-list will be used for reference to all names already published, and that this Society may maintain a register to take care of the new acquisitions from year to year. It remains for the members of this Society to all work together to build up a sentiment which will cause every producer of a new variety to send in specimens and complete descriptions, together with a photograph and a proposed name, before he offers the variety to the trade. In return for this the Society might issue to him a number and allow him to advertise his new variety as American Peony Society No. —. If the secretary found that the type of bloom he offered for registration was already well represented and that his seedling almost duplicated several already registered, he could discourage the registration of that name and furnish the grower with the names of those which it already duplicates. Now, my friends, the question arises, Will the growers do all this? I maintain that this plan is perfectly practicable and is the most natural thing to do, and the degree to which it will succeed will depend solely upon the moral strength and commercial prestige of the members of this Society and in the degree in which people believe in its honesty and reliability. Whatever work we

do with peonies, we must do it carefully and well, and in such a way that it will stand the test of the years. If this is done, peony growers everywhere will covet our registration numbers. If it is not done, they will not care a rap for our numbers. When we come to consider this subject, we find that we are dealing with principles which reach far beyond mere peonies. Whether we have to do with apples or roses, potatoes or chrysanthemums, we must face the question of variety descriptions and variety records. Therefore the question arises:

What Is a Variety?

Ever since the early forties when C. M. Hovey deluged the readers of "Hovey's Horticultural Magazine" with lengthy discussions in regard to varieties of strawberries down to recent times when the fruit growers of the west were wrought up to such an intense state of excitement over the *Gano* and *Black Ben Davis* apple controversy, this question has been the cause of prolonged discussion. One faction holds that every seedling from a plant (which does not come true from seed) is a distinct variety. This idea of a variety is based on its origin. The other faction holds that a variety is a group established by man for convenience in trade. Those persons who describe seedling peonies with the first idea in mind, add greatly to the confusion, for where many seedlings are raised, many of them necessarily very closely resemble each other.

Can the Same Variety Originate Twice?

Here again we have a much fomented question and one which depends for an answer on the idea you have as to what a variety is. I take the ground that a variety is a group of forms which is made for convenience and in which the forms are near enough alike to pass for the same thing in the peony trade. I therefore hold that varieties can and do originate at different times and places and that it is our duty to reduce to synonyms those names which have been given different seedlings of the same variety. We should not be too radical in this, however, but should always allow distinct names for all seedlings which have differences sufficient to be detected by the eye trained for peonies. It seems to me that this is the only way out of the difficulty.

How to Describe Color.

Theoretically we should describe colors in percentages of the primary colors, which may be obtained by rotating a graduated wheel with sliding color scales upon it. This method, however, is too complicated and time-consuming for peony work, and we have therefore to rely upon some color chart. After looking over the various charts available, I am convinced that the chart published recently by the French Chrysanthemum Society is by far the best. I am therefore using this and giving the popular term for the color for ordinary use. The page and number of the page are also quoted and may be referred to in case definite and critical comparisons are to be made. The title of this work is "Repertoire de Couleurs" (Index of Colors), and it contains hundreds of charts in almost every conceivable shade.

FRUIT AND VEGETABLE PROSPECTS IN WESTERN NEW YORK.

The subject of the weather is usually a trite one, fit only to fill embarrassing pauses, but this season it has become an interesting if not a vital issue among the green truck growers of Irondequoit. Next to the high winds in the early spring, sharp cold nights were the most conspicuous feature in the spring's meteorological record, but as far as can be discovered at present, the only noticeable effect of these has been to retard vegetation. No mention is made, from any part of the town, of actual damage inflicted.

As week follows week without adding materially to the aggregate rainfall, the outlook for small outdoor crops, naturally becomes less assuring. Excessively wet weather at this time of the year is for various reasons undesirable, yet it is not without its compensating advantages, and pretty much the same may be said of an abnormally dry season. Of the two extremes, the majority of the gardeners would prefer the dry; nevertheless it is possible to ignore the seriousness of a deficiency in the rain fall. What the gardeners are chiefly concerned about is the effect upon the future crops. If the next month or two, which constitutes the main portion of the growing season for the majority of crops, should be normally dry, it is feared that the consequences may be of a serious nature, for there are very limited reserves of moisture in the soil to atone for any deficiency in the current surface supplies.

The wonderfully healthy appearance of the few fields of rye, is frequently commented upon. These plants are often more advanced in growth than is the case this year, but rarely are they more uniformly developed, healthy and vigorous, and, as these considerations are of much more vital significance than mere luxuriance of growth, the prospects are generally regarded as eminently reassuring.

All through Western New York the fruit growers are encouraged and are looking brighter, and all because the weather man has handed out a little sunshine. A close inspection of the apple orchards has been made, and they show that about all varieties are looking well, and there will be very little, if any, falling off in any of the orchards.

Baldwins will not bear this year as well as last. Russet, Pippin, Lady Blush, Spy, Greening, and Kings will be a big crop—if the present indications count for anything. Peaches will be a little more than half a crop. Bartlett pears are setting good, while the Kieffer variety seems not to be doing well. H. R. PEACHEY.

Irondequoit, N. Y.

BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

INSPECTING THE MILLIONAIRE.



Our friend and everybody's friend, Patrick O'Mara, would never be accused by any one of the legion of those who know him, of following up millionaires for the sake of knowing them yet here we have him, with his back towards us, intently bent on that very thing. This particular Millionaire, however, happens to be a strawberry and like other millionaires it

has already had considerable newspaper notice. On invitation of Prof. Johnson, Mr. O'Mara went out to see the famous berry and on his return is accused of having said it was as big as a potato, but he declares this to be a base fabrication. He is willing, though, to go on record as saying that it strikes him as being the best thing in the way of a strawberry that has yet come under his notice

FRUIT CROPS IN WASHINGTON.

Reports from inspectors in various parts of the Spokane country, embracing 150,000 square miles in eastern Washington and Oregon, the panhandle of Idaho, western Montana and southeastern British Columbia, show that this season's fruit crop will average 85 per cent. of the 1906 yield, which was a record-breaker, but that tree, bush and vine fruits will be of better color, size and flavor than ever before. Greater care has been taken by the various state and provincial horticultural commissioners in eliminating infested trees shipped in from outside, and the yield will bring the growers between \$9,000,000 and \$10,000,000, which is a gain over last year. Prices are maintained, the supply being far below the demand, because of heavy exports to Europe, Australia and the Orient and big shipments to Chicago, Denver, Boston and eastern points.

F. A. Huntley, state horticultural commissioner for Washington, has three deputies at work in the commonwealth. They are stationed in Spokane, Tacoma and Seattle, who are assisted by special inspectors. This service has the effect of raising the standard of purity and cleanliness of all fruits to a marked degree. It has done more than anything else to force thorough spraying and careful sorting and packing by the producers, and inferior stuff is kept out of the markets.

On the highlands, there will be im-

mense crops of apples and prunes. In the Spokane, Yakima and Walla Walla valley the apple and peach crops are late, but the trees are well laden and orchardists are looking for a banner year. Nearly all the fruit will be marketed on commission this year.

The cherry crop was large this season. The berry crop also was large, growers of strawberries in the Spokane valley and the Sunnyside district harvesting from 500 to 700 crates the acre, while several culturists near Greenacres, reported yields of 1000 crates an acre. The prune crop in the districts west and southwest of Spokane promises to be unusually heavy.

Several Australian firms have sent their American representatives into the Yakima country, west of Spokane, to buy fancy red apples. Through an alternation of seasons, the apples will reach the other continent at a time when the fruit there is out of season.

Prof. Cyrus L. Smith, commercial representative of the Inland Empire, announces that the pear crop in the Spokane country will be from 15 to 25 per cent. better in grade than in any previous year, and, he adds, there is every indication the yield will be a big one. The recent rain has helped the fruit wonderfully and improved it greatly.

One of the most beautiful decorations in Boston is the big retail establishment of Filene at the corner of Washington and Winter streets, every window in the vast building being adorned with a window box of geraniums and vincas.

Seed Trade

As the season advances, it becomes more evident that many crops will fall below average, particularly peas and corn. As regards the former, it is generally accepted that the crop will not be materially better than last year, and may finally prove worse.

The canners are very busy packing and working 16 to 18 hours a day. Thus far, they have managed to keep fairly well up with their work, and the crop of early peas, mainly Alaska, will be from 75 per cent. to 80 per cent. of an average, and probably the latter varieties will not do any better.

While it cannot be said that sugar corn is a failure in the east, it will certainly need to grow rapidly to make up for lost time. It is at least a month late, and much of it looks sickly. The consensus of opinion among canners is that under the most favorable conditions from now on, they cannot expect over one-half to two-thirds of a crop, which of course, means that the prospects for seed are very dubious.

Vine seeds are not promising, but they are not in so unfavorable a condition as corn. An indication of the way the situation is viewed by canners may be noted from the fact that corn which sold slowly at 50c. per dozen cans during February, March and April now brings 75c. readily, and jobbers are active bidders. It is wise not to borrow trouble, but it is extremely foolish not to recognize the signs of the times, and those persons who regard everything as rosy, may find they have been living in a Fool's Paradise.

Referring again to peas, most of the responsible growers have ceased to take on any more contracts, realizing that they cannot fill orders already booked. Radish seed, especially Scarlet Globe, and White-Tipped Scarlet turnip, of the right stocks, will again be at a premium.

No news of importance from the Golden West within the past week, but it is now quite generally believed that onion seed will not be quite so short as seemed probable in April and May.

Tomatoes are late, and they will require a late, warm fall to mature much of a crop.

The sympathy of the trade in Toledo, O., is with Mr. Wm. Philipps, who recently suffered a heavy loss through a fire which destroyed his entire stock. The fire broke out next door to the Wm. T. Philipps Seed Co. and finding its way into the big freight elevator, spread rapidly over the third floor, which was used for the storage of buggies and wagons, in which this house deals heavily. The other floors escaped the flames, but everything was so thoroughly water-soaked, as to be considered a total loss, which fortunately is fully covered by insurance. This firm is doing a large business with truckers and the stock on hand is considerable.

The Wood, Stubbs & Co., seed house on East Jefferson street, Louisville, Ky., was destroyed by fire early on the morning of July 18. The fire started in an adjoining building and for a time threatened the entire block. Wood, Stubbs & Co.'s loss was estimated at \$25,000, partially covered by insurance.

VALUE OF HEDGES AS CROP PROTECTORS.

Hedges as a crop protection, in addition to their value as an ornamental attraction to a place, are rapidly becoming a necessity to the grower of small truck and flowers, and a defense which the greenhouse owner appreciates when the cold winds are



Hedge Protection for Truck Gardens.

blowing sixty miles per hour. This question of shelter from winds is quite as important as fuel and building material, which money may buy.

The illustration here shows the hedges on the garden farm of J. M. Cooper, Irondequoit, N. Y. To visit this place reminds one of the hedges of England. They add hundreds of dollars in value to a place.

H. R. PEACHEY.

CELERY GROWING IN IRONDEQUOIT.

(Continued from page 815).

During the early stages of growth it is only necessary to frequently stir the soil. When twelve to fifteen inches long, loosen the earth two or three inches deep with cultivator or hand-hoe; the celery is then ready for handling, which must be done with great care. The operator gathers all the leaves of each stalk up and holding in position with one hand presses the loosened earth against the stalk with the other. When this is finished the earth is thrown toward the celery from both sides with a one horse plow. It is well to have a man follow with a hand hoe and draw the earth still closer to the celery where the plow has failed to do the work properly.

As fast as the celery grows, hoe up the earth to within a few inches of the top until the time for bleaching. This part of the work is tedious and to do it well one must know how to handle a spade. A man stands on either side of the same row and commencing ten or twelve inches from the celery, raises a straight bank of earth covering all the celery except three or four inches of the largest leaves. Each man endeavors to build his side firmly and straight up and down. It is important that the hearts should be kept straight and not in any way injured.

In the Middle States celery usually is taken up about the first of November. The stalks are plowed up with a machine, some of the earth shaken from the roots and left in heaps along the row. In the meantime, a trench is opened in some convenient spot ten inches wide, the depth to correspond with the length of the celery.

Place the stalks in an upright posi-

PLANT STAKES CANE STAKES

Long selected stock, thin and wiry, very strong.

	per 100	per 1000	per 5000
Southern... 8 to 9 ft.	75c.	\$6.00	\$25.00
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STEEL STAKES

No. 10 Steel Wire Galvanized

	per 100 per 1000			per 100 per 1000	
2 ft. . .	\$0.45	\$4.08	4½ ft. . .	\$1.00	\$9.20
2½ " " .	.55	5.11	5 " " .	1.12	10.23
3 " " .	.65	6.15	6 " " .	1.30	12.25
3½ " " .	.78	7.18	6½ " " .	1.40	13.28
4 " " .	.88	8.16			

No. 8 Steel Wire Galvanized

For Staking American Beauty and other strong and tall growing Roses.

		per 100	per 1000			per 100	per 1000
2	ft.	\$.55	\$5.25	4	ft.	\$1.10	\$10.00
2½	"	..70	6.50	4½	"	.. 1.25	11.50
3	"	..80	7.50	5	"	.. 1.40	13.00
3½	"	..95	9.00	6	"	.. 1.60	15.50

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tion, closely packed together until the whole trench is filled. As the weather grows colder the earth is drawn from either side towards the celery and when the covering is finished it will look like a single row of celery. Tops should be dry when packed in trenches, else the plants may rot badly. The tops are preserved by covering with long manure, straw, hay or any other litter, but see that a sufficient quantity is used. The celery is now in condition to use when properly bleached.

H. R. PEACHEY.

CORRECTIONS.

Unfortunately for the peace of mind of publishers, proof readers need vacations just as other mortals of less importance do. The brief absence of this indispensable personage explains some of the typographical vagaries which our readers undoubtedly discovered in our last issue. On page 74 the words "Eastern forcing," referring to baby rambler rose, should read "Easter forcing." On page 89 the captain of industry in the photograph is W. J. Elliott, not "Ellicott," and we might add that the beautiful young lady who appears in the group is Mrs. Wheeler.

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AUGUSTUS ZIRNCIEBEL, Needham, Mass.

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OVER 3000 FLORIST

all over the world to the best satisfaction of the most critical growers, and

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Borecole, Brussels Sprouts, Leek, \$1.00 per 1000. Lettuce, Grand Rapid, Boston Market, Defiance, \$1.00 per 1000. Moss Curled Parsley \$1.00 per 1000.

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For the Herbaceous Garden,
For the Flower Garden,
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The firm of C. Keur & Son, tulip and hyacinth growers in Hillegom, Holland, has filed suit in common pleas court against three Cleveland florists.

The plaintiffs say they furnished bulbs to Frank E. Bauers of South Brooklyn, Emil Heidenblut of the West Side and Henry Eickhoff, 6818 Woodland avenue, S. E., amounting to \$366.15, for which they say they have not been paid. The cases are appealed from justice court.

The bills are couched in such romantic language as:

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The Cleveland florists won the cases in justice court on the ground that the bulbs were decayed.—*Cleveland Plain Dealer.*

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Asparagus Sprengeri from 3 1-2 in. pots,
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A WINTER TRIP TO EUROPE BY AN AMERICAN GARDENER.

(William Kleinheinz, before the Pennsylvania Horticultural Society, March 19th, 1907.)

We Germans have a saying that it is the duty of every traveler to tell a story. It is, therefore, in a sense of duty that I accepted the very kind invitation of the Pennsylvania Horticultural Society to address you this evening on "An American Gardener's Winter Trip to Europe." While I regard the privilege given me as a great honor, I fear that the pleasure will be mine rather than yours, because the trip was a hasty one, enabling me to stop merely here and there and, in most places, only to "step right in and turn around and walk right out again." But if I can in my little talk give you any hint of the pleasure I had in making the journey, then I shall consider myself pardoned for taking up your time.

Through the courtesy of Mr. P. A. B. Widener, my employer, I sailed on the Kroonland for Antwerp, on November 21st, and after an enjoyable but uneventful trip of ten days arrived on the first of December. Antwerp is interesting to the traveler rather than to the gardener, and so I journeyed after a little tarry on to Brussels.

The weather was of the sort water lilies like—rain, more rain, and still more rain—so that my sight-seeing was restricted to the Botanical Garden in Brussels. Perhaps it was the bad weather, perhaps my expectations were too great—at any event I was disappointed in the far-famed Gardens. They do not seem to be maintained to the standard I looked for. But at Ghent I was charmed; charmed from the moment when I alighted from the train. The passenger hall is magnificent. Under a great glass shed, just outside of which the train stops, there are passages of immense size. On either side and through the centre, along those passages, are great grass plats planted with the choicest flowers and not a few immense palms—all this even though the December days had arrived. Contrast December days in this neighborhood with those in beautiful Ghent.

The World's Finest Establishments.

My first objective point was the establishment "Société Horticole Gandtoise." I had the pleasure, here, of meeting the head gardener, Mr. E. Wartel, and through his courtesy I was enabled to visit some of what I believe to be the world's finest establishments for growing palms, azaleas, and assorted stove plants. Mr. Wartel himself has the finest and most wonderful collection of anthuriums it has ever been my good fortune to see. He kindly furnished me with address of such standard commercial places as those of Mr. Jules de Cock, Mr. Miller Richard, and others—all elegant and all of mammoth size.

In these places the very first step you take shows evidence of good management. Everything is neat and clean as on shipboard; the plants are all in the pink of perfection. The general cultures are palms, especially *Kentia Forsteriana* and *Kentia Belmoreana*, azaleas, bays (*Laurus nobilis* and *Laurus cerasus*), *Acacia armata* and

Acacia verticillata, *Araucaria excelsa*, and a wide variety of stove and other plants.

On the following days I was equally fortunate in meeting Mr. Oscar de Reave, of Mt. St. Amand Nursery. Mr. de Reave was recently in the employ of the H. A. Dreer Company at River-ten, and was of most valuable assistance to me. He enabled me to visit all the important places about Ghent, which I had not up until then inspected. It may be of passing interest to say that through Mr. de Reave I was able to see the place where the well known Azalea *Vervaeana* originated. In a short time Mr. de Reave will be able to supply the newest azalea, a splendid white *Vervaeana*. Should any of my gardener friends get to Ghent I am sure Mr. de Reave will receive them the same as he did me.

Culture of Azaleas.

Perhaps it may be of interest to have me say a few words about the way azaleas are cultivated in Belgium. For Grafting, the pink Azalea indica is used. The grafts are propagated by cuttings from December 1st and grown for a year in small pots to single stems. They will make a growth of from 10 to 18 inches in the season. After grafting in December the plants are plunged in a propagating bed with sufficient bottom heat, and close to the glass, until they begin to grow vigorously, after which they are removed to a suitable house. In spring, as soon as the weather is safe, the young plants are set out in beds, where they are allowed to remain until fall. At this time the young plants, as well as the old ones not sold, are lifted and placed on benches in shaded houses. As soon as outside work is over, the azalea grower starts in to remove all the flower buds and to trim the plants into shape. The plants are either potted up or planted out in benches as close as possible, and are kept there all winter in a temperature a trifle above the freezing point. When the weather again moderates they are planted out in the open ground, in beds about five or six feet wide. Of these plants, the strongest are sold in fall, according to the sizes wanted, and the remainder go through the course of indoor treatment as described. To describe the rich, black soil with which the Belgian azalea grower is favored would be to waste your time—every gardener knows what a wonderful, rich soil it is.

Sander's Marvellous Collection.

After leaving Ghent I spent an entire day at the establishment of F. Sander & Son, at Bruges. It is the largest and most admirable place I have ever seen. Mr. Glibert, the head gardener, was kind enough to show me every nook and cranny of the immense place, and he kept me on the constant move from 9 o'clock in the morning until 6 o'clock at night. There are houses—yes, dozens of houses—filled with orchids. Of cactileas there is a range of at least fifteen houses. Another range is devoted solely to cypripediums, and there are at least ten houses given over to diverse orchid seedlings. Among the cypripediums I particularly noted "Cypripedium Curtisii Newbillo," as Mr. Glibert called it. It is a new importation, but he has thousands of

specimens. The upper sepal and petals much resemble *Cypripedium Lawrenceanum*, but the pouch is a fine dark red. I regard it as a very striking variety, and recommend that it should be extensively grown.

The next range consisted of I do not know how many houses, but certainly a great number filled with palms of all sizes. Then, there are houses with azaleas, with crotons, and with stove plants. From range to range we went, until our trip finally terminated at the monster sheds for wintering bay trees. Thousands were here to be seen, from the smallest to monster standards, and in all shapes, standards, pyramids and columns. All were in perfect condition. In passing I noted especially a new croton seedling of the type of Craigii, but with larger foliage and of a more vigorous growth.

I must pay this tribute in closing to Mr. Glibert (who, by the way, was the associate of our friend, Paul Heubner, when he was at Van Houtte's) that he is the only man who ever caused me to become tired of looking at plants. It was because of his exceeding great kindness and his absolutely untiring enthusiasm, that I did not visit a greenhouse in my next stopping place, Berlin.

A Tremendous Palm House.

In fact, the only house I visited after leaving Belgium was the Palm Garden at Frankford-on-Main. The tremendous palm house there is unquestionably a wonder of the horticultural world. You are charmed with the arrangement the moment you enter. The mammoth specimens are planted on both sides of the main walk, leaving a delightful alley, palm-bordered and palm-leaf roofed.

As a substitute for the conventional lawn there is used *Selaginella denticulata*, and it is magnificently arranged, grown and kept. At the rear is a monster backing of palms, half hiding a rockery with running water. Attached to the palm house are side houses filled with cold house plants, such as camellias, azaleas, pittosporum and many others. Quite recently there was added a new range of show houses. The centre house is planted similarly to the palm house, but perhaps because I had seen the great palm house first the new one looked somewhat empty and unfinished. Side houses are attached and these are used especially for stove plants and for orchids. All are most attractive. In the Palm Garden are, in addition, a range of growing houses, but these are not conspicuous, and since they are used only for growing to supply the show houses they are not open to the public.

By this time I felt that my ability to take any new impressions had been exhausted, so I spent a few days, all too short, in visiting relatives and friends, and then I sailed for the best country on all the globe, the dear United States which, I do believe, I never loved so much as when I heard the welcome of friends and saw again the old, familiar faces. If you want to appreciate more than ever you did before your own country, take a trip abroad. If you do, I know that you will be at least able to speak more entertainingly than I have, of "An American Gardener's Winter Trip to Europe."

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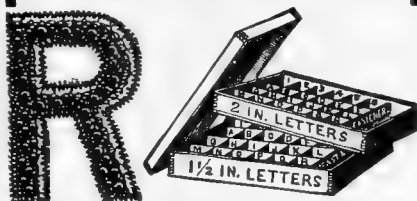
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Cattleyas.....	35.00 to 50.00	50.00 to 60.00	50.00 to 60.00	35.00 to 60.00
Lilies.....	12.00 to 15.00	12.00 to 15.00	10.00 to 15.00	4.00 to 8.00
Lily of the Valley.....	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00	1.00 to 3.00
Gardenias..... to50 to .75	1.00 to 1.50	2.00 to 3.00
Mignonette.....	4.00 to 6.00	3.00 to 5.00 to50 to 1.00
Adiantum.....	.25 to	1.00 to 1.50	1.00 to 1.50	.50 to 1.50
Smilax.....	10.00 to 12.00	12.00 to 15.00	12.00 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00 to 30.00	35.00 to 50.00 to 50.00
" " & Spren. (too bchs.)	35.00 to 50.00 to 30.00	35.00 to 50.00	25.00 to 50.00

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FLOWER MARKET REPORTS

BOSTON The supply of carnations and roses has shortened up materially, many growers having thrown out their blooming stock and replanted, and the market is greatly relieved in consequence. The overstock which existed hitherto is reduced to moderate dimensions and prices are firmer, but there is no increase in the demand as yet. Sweet peas are coming in far greater supply than the market can care for and there is no staple value on this item. A few asters are in evidence—the vanguard of a vast supply which is in course of development for this market. There is practically no change in the selling price of anything from quotations of last week. Buyers of small lots must expect to pay quoted values but a customer for large shipments can rely upon getting due consideration.

BUFFALO Not much of an improvement in the market the past week as far as trade is concerned. A little floral work flurry occasionally, which is about all that the retailers figure on, keeps them busy at times, while the wholesaler is looking for an outlet of the superfluous supply which accumulates from day to day. Good roses are in demand, also lilies now and then. Japanese and long-florum lilies have been in good supply, also sweet peas of fine quality, but too many of the latter. Prices are rock low and sales slow. Carnations are still plentiful but poor in quality; greens are in good supply.

INDIANAPOLIS The market has been decidedly quiet the past week. There is abundance of poor stock and hardly enough good stuff to go around even though the demand is small. There is a fair demand for Beauties, but in general the quality is not up to what it was last year. Teas are small, off color and badly mildewed. There seems to be plenty of carnations, but of very poor quality. Asters are coming in fair. Gladioli sell well especially the lighter shades. Lilies of all kinds are abundant and slow sale. Lily of the valley seems to be hard to move. All kinds of greens are plentiful with little or no sale. Galax leaves are good property at the present time.

NEW YORK Business shows a slight improvement which, it is to be hoped, may last and the tendency of prices toward greater stability. There is, of course, a big proportion of very shabby material coming in to the wholesale market in this hot weather on which no value can be set. Such stock is never counted out and is considered well sold if sold at all. There are enormous quantities of sweet peas being received, noticeable mainly for their inferiority of flower and brevity of stem, which are rarely disposed of

other than through the medium of the garbage man. Sorry to have to tell it, but it is true. Asters are seen occasionally. Some fine Shakespeare gladioli are in evidence and one spike brings as much as ten spikes of the common red. Express charges are just as high on the red and we assume that the cost of growing is no different. Growers should not forget this.

PHILADELPHIA Notwithstanding the big influx of visitors (calculated to have been over a million all told) to this city incident to the Elks' convention, business last week in the flower trade did not rise above the normal. Arriving shipments were in somewhat smaller volume with demand about normal. Qualities are of the usual summer grade. The only stir in the placid sea was in funeral work. White roses met ready sale and cleaned up nicely. Kaiserins were in the lead of course.

BUSINESS CHANGES.

Dick Schmidt has purchased the greenhouses of Ed. Fries, Newport, Ky.

Charles Benson of Denver, Colo., has leased the greenhouses of W. C. Walters.

Louis Gresenz has bought out Mrs. A. Hertel of 150 Clybourn avenue, Chicago.

Max Rudolph, Cincinnati, O., has purchased his partner's interest in the business.

The flower stand in the theatre building, Moline, Ill., will be carried on hereafter by C. W. Sandstrom.

Ed. Fries will hereafter carry on the Highland avenue greenhouses at Newport, Ky., in his father's place.

Ben Boldt, Denver, Col., has moved from 16th street to W. 29th street, August Schenkel's establishment.

C. M. Wagner will move from the Schofield building to Euclid avenue, Cleveland, O., about September 1.

John Eddy & Sons, Westmount, Can., have bought land at Melrose Lawn and are erecting three new houses. They also purchased the greenhouses of the Campbell estate, selling a part of them later to Camille Gratton, who has been foreman for Mr. Campbell for the past four years. Mr. Gratton will start in business at St. Laurent where he has purchased land.

Wm. Kiss, formerly at Fitchburg, is now located at Manchester, Mass.

PHILADELPHIA NOTES.

Charles S. Grey has resigned his position with Edward Reid and is now associated with his brother in another line of business.

Leo and Arthur Niessen of the Leo Niessen Co., left for their vacation on Monday the 22d. Clarence J. Watson, their manager, also departed on the same date for a well earned rest. The acting captains of the business at present are Ralph Shrigley and W. Niessen.

Jno. G. Gardner has secured the contract for the landscape work on the Sharpless estate at West Chester.

Edward Campbell is doing the landscaping on an important private institution near Wilmington, Del. Nearly all the landscape men are unusually busy this summer in this neighborhood.

Miss Hart of the accounting department of the Pennock-Meehan Co., was married on the 19th inst. to Clarence S. Platt of Chester. Mrs. Platt was a most efficient business woman and will be greatly missed among her old associates.

TOLEDO, O., NEWS.

All our florists are now very busy fixing up their houses, whitewashing, glazing and planting. They all look back upon a season which has been very prosperous from every standpoint. There are even now belated orders for beds of geraniums and porch boxes. This is later than they have ever had such orders before.

E. Kuhuke is putting up three houses, each 22x100, which are to be filled with carnations. He has just finished planting his chrysanthemums and potting cyclamens is now in order.

George Bayer is trying to get his 20-acre plot in shape; so far asters and carnations are planted to a very large extent, while most is in garden truck. Krueger Bros. are building a large cellar under their palm house. John Gratopp is a great believer in linking flowers and "truck" together; his carnation houses which are now filled have been full with cucumbers which have done well.

MOVEMENTS OF GARDENERS.

Peter Petersen succeeds Victor Schmitt as gardener for Philip Saltonstall, Milton, Mass.

A. G. Sawyer, formerly with E. R. Whitney, has succeeded Emil Anderson as gardener for F. C. Milliken, Milton, Mass.

Carl E. Kern, Mt. Kisco, N. Y., has taken the position of landscape gardener with the National Cash Register Co., Dayton, O.

John Cody occupies the position formerly filled by John Ross, gardener for Francis Peabody, Jr., Milton, Mass. Mr. Cody had been previously in the employ of Thos. F. Galvin and E. Sutermeister respectively.

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Carnations**51 West 28 St. - NEW YORK****FORD BROTHERS**

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NEW YORKTelephone 167
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Ready to talk with growers about consignments for coming season

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending July 20 1907		First Half of Week beginning July 22 1907			Last Half of Week ending July 20 1907		First Half of Week beginning July 22 1907	
Roses					Carnations, Fancy and Novelties..	.75 to 1.00	1.00 to 3.00		
Am. Beauty, fan and sp.	10.00 to 15.00	10.00 to 20.00			" Ordinary .....	.25 to .50	.50 to 1.00		
" extra	6.00 to 8.00	6.00 to 8.00			Sweet Peas (100 bunches).....	1.00 to 1.50	1.00 to 1.50		
" No. 1	2.00 to 3.00	2.00 to 3.00			Cattleyas	20.00 to 50.00	20.00 to 50.00		
" Lower grades .....	.50 to 1.00	.50 to 1.00			Lilies	1.00 to 3.00	6.00 to 8.00		
Bride, 'Maid, Golden Gate, fan & sp	1.00 to 3.00	1.00 to 4.00			Lily of the Valley.....	1.00 to 2.00	1.00 to 3.00		
" " lwr. grds. ....	.25 to .50	.25 to .50			Gardenias	2.00 to 10.00	2.00 to 12.50		
Liberty, Richmond, fancy & special	1.00 to 3.00	1.00 to 4.00			Pligonette .....	.50 to 1.00	.50 to 1.00		
" " lower grades ..	.25 to .50	.25 to .50			Adiantum .....	.50 to .75	.50 to .75		
Chatenay, Morgan, fancy and spec.	1.00 to 3.00	1.00 to 4.00			" Crownum.....	1.00 to 1.50	1.00 to 1.50		
" " lower grades ..	.25 to .50	.25 to .50			Smilax	8.00 to 12.00	8.00 to 12.00		
Killarney, Wellesley, fan. and spec.	1.00 to 3.00	1.00 to 4.00			Asparagus Plumosus, strings....	20.00 to 30.00	20.00 to 30.00		
" " lower grades ..	.25 to .50	.25 to .50			" " & Spren. (100 bchs.)	10.00 to 25.00	10.00 to 25.00		
Gladioli50 to 2.00	.50 to 6.00							

ORCHIDS AT ALL SEASONS**WM. STUART ALLEN CO.**

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53 WEST 28TH STREET, NEW YORK

Telephone 356 Madison Square

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WHOLESALE FLORISTSFurnish best stock at fair prices all the year round Send for quotations on fall orders
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HARDY FANCY CUT FERNS, Extra fine, \$1 per 1000

BRONZE GALAX, \$1.25 per 1000.

SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25

Hammond's Old English Liquid Putty, \$1.25 per Gal. Hammond's Greenhouse White Paint, \$1.50 per Gal.

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Write for price list on cut flowers and supplies.

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Cut spikes in any quantity from
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3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

GETMORE BOX FACTORY, Incorporated,
BELLEVILLE, ALA.

NEWS NOTES.

The florists of Holyoke, Mass., will close their stores on Wednesday afternoons until September 1.

Miss Eda Birn, Nashville, Tenn., has filed a petition in bankruptcy. Liabilities, \$1,993.75; assets, none.

Thomas Carter, gardener at Exeter Rose Conservatories, Exeter, N. H., has been quite ill for two weeks.

Hail stones got in their work at Staatsburgh, N. Y., July 13, and did considerable damage among the greenhouse men.

It is reported that George Hunt, a florist of Terre Haute, Ind., has become insane, the result of frequent attacks of epilepsy.

L. Stankowicz, a florist at Niles, Ill., has begun action to recover \$15,000 from the Northwestern Gas Light & Coke Co. He states that because of faulty mains the illuminating gas has percolated through the ground and ruined his plants and flowers.

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WHOLESALE FLOWER MARKETS.—PER 100. TO DEALERS ONLY.

	CINCINNATI July 16	DETROIT June 24	BUFFALO July 22	PITTSBURG July 23
ROSES				
Am. Beauty, Fan. and Sp.	to 25.00	25.00 to 35.00	20.00 to 25.00	15.00 to 20.00
" Extra	18.00 to 20.00	20.00 to 25.00	15.00 to 20.00	10.00 to 12.50
" No. 1	10.00 to 15.00	18.00 to 20.00	8.00 to 10.00	4.00 to 6.00
" Lower grades	5.00 to 8.00	6.00 to 12.00	3.00 to 8.00	..... to 1.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	6.00 to 8.00	6.00 to 7.00	..... to 6.00
" " " Extra	4.00 to 5.00	4.00 to 6.00	4.00 to 6.00	..... to 4.00
" " " No. 1 & l.w. gr.	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00	..... to 2.00
Liberty, Richmond, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" Lower grades	3.00 to 5.00	2.00 to 4.00	3.00 to 6.00	2.00 to 4.00
Chatenay, Morgan, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" Lower grades	3.00 to 5.00	2.00 to 4.00	3.00 to 6.00	2.00 to 4.00
Kaiserin, Carnot, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 7.00	6.00 to 8.00
" Lower grades	3.00 to 5.00	2.00 to 4.00	3.00 to 6.00	2.00 to 4.00
Killamey, Wellesley, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 7.00	4.00 to 6.00
" Lower grades	3.00 to 5.00	2.00 to 4.00	3.00 to 6.00	..... to 2.00
CARNATIONS				
Fancy and Novelties	to 2.00	3.00 to 4.00	1.50 to 2.00	..... to 1.50
Ordinary .....	.75 to 1.50	.75 to 2.00	1.00 to 1.25	.50 to 1.00
MISCELLANEOUS				
Sweet Peas .....	.25 to .35	.25 to .35	.15 to .50	.25 to .35
Cattleyas	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	40.00 to 50.00
Lilies	8.00 to 10.00	15.00 to 20.00	4.00 to 15.00	..... to 8.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	..... to 4.00
Gardenias	10.00 to 12.00	..... to 10.00	2.00 to 10.00	10.00 to 12.50
Mignonette	1.00 to 2.00	25 to 1.00	1.00 to 1.25	1.00 to 2.00
Adiantum .....	..... to 1.00	1.00 to 2.00	.50 to 1.50	1.00 to 1.50
Smilax	10.00 to 12.00	12.50 to 15.00	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 75.00	40.00 to 50.00	30.00 to 50.00
" & Spreng. (100 bchs.) to 25.00	30.00 to 40.00	25.00 to 35.00	25.00 to 40.00

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIA PUBESCENS

Albert Dirwanger, 422 Congress St., Portland, Me.

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ACCOUNTANT

R. J. Dysart, 28 State St., Boston.

For page see List of Advertisers.

ADIANTUMS

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Adiantum Hybridum, 2-12 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

AGAVES

M. Bullocke, 85th St. and 2d Ave., Brooklyn, N. Y.

Variegated Agaves.

For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons.

51 and 52 N. Market St., Boston.

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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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ASPARAGUS

C. Elsele.

11th and Roy Sts., Philadelphia, Pa.

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DePew Bros., Cor. Piermont and DePew Aves., Nyack, N. Y.

Asparagus Sprengerii.

Asparagus Sprengerii, 2-14 in.; ready for planting out or into larger pots, \$2.50 per 100; \$20.00 per 1000; 500 at 1000 rates. J. F. Anderson, Short Hills, N. J.

Asparagus plumosus nanus and Sprengerii, 2-12-in., \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

AZALEAS

John Scheepers & Co., 4 and 6 Old Slip, New York.

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BAMBOO CANES

Stumpp & Walter Co., 50 Barclay St., New York.

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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

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J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Begonias Agatha, Triomphe De L'Est.

Begonias—Fairly Queen, Gracilis, and other flowering kinds; 3 inch \$5 per 100. Harlowarden Greenhouses, Greenport, L. I.

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BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

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BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses, Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

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Joseph Breck & Sons, 47-54 N. Market St., Boston.

For page see List of Advertisers.

J. M. Thornburn & Co., 83 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lillies.

For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y.

Cold Storage Lillies.

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Rickards Bros., 37 East 19th St., New York.

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H. F. Michell Co., Philadelphia.

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Johnson Seed Co., 217 Market St., Phila.

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John Scheepers & Co., 4 and 6 Old Slip, New York.

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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.

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James Vick's Sons, Rochester, N. Y.

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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

CANNAS

The Conard & Jones Co., West Grove, Pa.

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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.

For page see List of Advertisers.

Wm. Cooper & Co., Montreal, Can. Wanted: White and Pink Lawsons; Winners.

Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CHRYSANTHEMUMS

Chas H. Totty, Madison, N. J. Chrysanthemum novelties.

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The H. Weber & Sons Co., Oakland, Md.

For page see List of Advertisers.

C. Elsele, 11th and Roy Sts., Phila.

For page see List of Advertisers.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting Co., 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums—All good late kinds, standard novelties out of 2-12 inch, up to September 1. Harlowarden Greenhouses, Greenport, N. Y.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2-12 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.

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Edwards Folding Box Co., Philadelphia.

For page see List of Advertisers.

Getmore Box Factory, Inc., Belleville, Ala. Light Wood Boxes.

For page see List of Advertisers.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.

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DAHLIAS

David Herbert & Son, Atco, N. J.

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DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.

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Julius Roehrs, Rutherford, N. J.

For page see List of Advertisers.

DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

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EVERGREENS

Bay State Nurseries, N. Abington, Mass.
Small Evergreens.
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August Raliker & Sons, 31 Barclay St., New York. Small evergreens.
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FERNS

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmani.
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Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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Wm. C. Smith, 61st and Market Sts.,
Philadelphia.
Boston and Scottil Ferns.
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Stumpp & Walter Co., 50 Barclay St.,
New York.
Ferns in Flats.
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Godfrey Aschmann, 1012 Ontario St.,
Philadelphia, Pa.
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C. Eisele, 11th and Roy Sts., Phila.
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Robert Craig Co., Market and 49th Sts.,
Philadelphia.

The F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersoni Elegantisima.

FERTILIZERS

Pulverized Manure Co., 31 Exchange Ave.,
Chicago.
"Wizard Brand" Sheep Manure.
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FICUS

Wm. C. Smith, 61st and Market Sts.,
Philadelphia.
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Robert Craig Co., Market and 49th Sts.,
Philadelphia.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2
Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St.,
Boston, Mass.
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Koral Mfg. Co., 26 Hawley St., Boston.
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N. F. McCarthy & Co., 84 Hawley St.,
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H. M. Robinson & Co., 15 Province St., and
9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
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J. Stern & Co., 125 No. 10th St., Phila-
delphia, Pa.
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Alex. McConnell, New York.
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Fred C. Weber, 4326-28 Olive St.,
St. Louis, Mo.
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J. Breitmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd.,
St. Louis, Mo.
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P. J. Hauswirth, 232 Michigan Ave.,
Chicago.
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William J. Smyth, Michigan Ave and 31st
St., Chicago.
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Theodore Miller, 4832 Delmar Bvd.,
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway,
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N.Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broad
way, Detroit, Mich.
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GARDENIAS

Stumpp & Walter Co., 50 Barclay St.,
New York.
Gardenia Plants.
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Robert Graig Co., Market and 49th Sts.,
Philadelphia.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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2000 Geraniums—Nutt, La Favorite, Gen.
Grant, Pride of the West; 3-1-2 in. pots,
\$5.00 per 100; \$40.00 per 1,000. Wm. Pat-
terson, 92 South Central Ave., Wollaston,
Mass.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin,
New York.
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Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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GLASS, High Grade, Double Thick Green-
house Glass. Lord & Burnham, 1133 Broad-
way, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St.,
Chicago, Ill.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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S. Jacobs & Sons, 1365-79 Flushing Ave.,
Brooklyn, N. Y.
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Metropolitan Material Co., 1398-1408 Metro-
politan Ave., Brooklyn, N. Y.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-
Iron Greenhouses, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B
Improved V Shaped Gutter with drip gut-
ter attachment. Lord & Burnham, 1133
Broadway, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
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Michigan Cut Flower Exchange,
38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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A full line of ferns, galax, and all wild
greens. N. F. McCarthy & Co., 84 Haw-
ley St., Boston.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Bay State Nurseries, N. Abington, Mass.
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T. H. Chivers, Amesbury, Mass.

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Lord & Burnham Co.,
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Hitchings & Co., 1170 Broadway, N. Y.
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W. W. Castle, 170 Summer St., Boston.
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Johnston Heating Co., 1133 Br'dway, N. Y.
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In writing to Advertisers kindly mention Horticulture

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.

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Hitchings & Co., 1170 Broadway, N. Y.

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Lord & Burnham Co., 1133 Broadway, N. Y.

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HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.

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INSECTICIDES.

Nicotide kills all greenhouse pests.

P. R. Palethorpe Co.,

Eleventh St., Owensboro, Ky.

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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.

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A. Leuthy & Co., Roslindale, Mass.

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Joseph Heacock Co., Wyncote, Pa.

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Clipper Lawn Mower Co., Dixon, Ill.

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George H. Cooke, Washington, D. C.

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Samuel Murray, 1017 Broadway,

Kansas City, Mo.

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Gude Bros. Co., 1214 F St.,

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Young & Nugent, 42 W. 23rd St., N. Y.

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P. J. Hauswirth, 232 Michigan Ave.,

Chicago.

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William J. Smyth, Michigan Ave. and 31st

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Park Floral Co., Denver, Colo.

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Thos. F. Galvin, 124 Tremont St., Boston.

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Atlanta Floral Co., Atlanta, Ga.

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Jacob Schulz, 644 4th Ave., Louisville, Ky.

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David Clarke's Sons, 2139-2141 Broadway,

New York.

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W. H. Donohoe, 2 W. 29th St., New York.

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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.

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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.

Long distance telephone connections.

LILACS

August Rolker & Sons, 31 Barclay St.,

New York.

Forcing Lilacs

LOBELIAS

LOBELIA KATHLEEN MALLARD.

New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.

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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,

American Nursery, Bagshot, England.

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The Conard & Jones Co., West Grove, Pa.

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New England Nurseries, Bedford, Mass.

Shrubs, Roses and Herbaceous Perennials.

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Nursery Stock. N. F. McCarthy & Co.,

84 Hawley St., Boston, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.

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Sander, St. Albans, England.

Importers, Exporters, Growers, Hybridists.

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Julius Roehrs Co., Rutherford, N. J.

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Carillo & Baldwin, Secaucus, N. J.

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Selbrecht & Son, Rose Hill Nurseries,

New Rochelle, N. Y.

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Jos. A. Manda, 191 Valley Road, W.

Orange, N. J.

Orchids, Orchid Baskets, Peat.

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Ordenez Bros., Madison, N. J., Box 105.

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PALMS

A. Leuthy & Co., Roslindale, Mass.

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Siebrecht & Son, Rose Hill Nurseries,

New Rochelle, N. Y.

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August Rolker & Sons, 31 Barclay St., New

York.

Kentia Palms.

Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange,

38 and 40 Broadway, Detroit, Mich.

Greenhouse Paint and Putty.

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Benj. Hammond, Fishkill-on-Hudson, N. Y.

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PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.

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PEONIES

Cottage Gardens Co., Queens, N. Y.

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Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

Peony and Phlox Manuals, 25 cents each. One of the finest collections of Peonies in America. C. S. Harrison's Select Nursery, York, Nebr.

French Peonies. The best collection. All varieties guaranteed true to name. Large stock. Strong plants. Catalogue free. Dessert, Peony Specialist, Chenonceaux, France.

All the new French Peonies grown by a specialist right at home. The best that can be obtained from any source. Everything as represented and no small nursery stock sent out. E. J. Shaylor, Wellesley Hills, Mass.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.

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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RHODODENDRONS

John Waterer & Sons, Ltd., American

Nursery, Bagshot, Eng.

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ROSES

M. H. Walsh, Woods Hole, Mass.

Hardy Roses, H. T. Roses and Ramblers.

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The Conard & Jones Co., West Grove, Pa.

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Thomas Roland, Nahant, Mass.

Lady Gay Roses.

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Chicago Carnation Co., Joliet, Ill.

American Beauty Plants.

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Jno. Burton, Chestnut Hill, Philadelphia,

Pa.

American Beauty Plants.

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Robert Craig Co., Market and 49th Sts.,

Philadelphia.

Grafted Roses.

Low-budded roses, No. 1, \$95.00; No.

1-2, \$65.00 1000. H. T. Jones, Elizabeth,

N. J.

RUSTIC WORK

Wm. Elliott & Sons, 201 Fulton St., N. Y.

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SALVIAS

John Scott, Rutland Rd., and E. 45th St.,

Brooklyn, N. Y.

SEEDS

T. J. Grey Co., 32 So. Market St.,

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Joseph Breck & Sons

51 and 52 N. Market St., Boston, Mass.

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W. Atlee Burpee & Co., Philadelphia.

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J. M. Thorburn & Co., 33 Barclay St., N. Y.

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A. T. Boddington, 342 W. 14th St., N. Y.

Challenge Pansy Seed.

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H. F. Michell Co., 1017 Market St., Phila.

Pansy, Cineraria, Primula Seeds.

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James Vick's Sons, Rochester, N. Y.

Vick's Superb Pansy Seed.

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Hjalmar Hartmann & Co.,

12 Stormgade, Copenhagen, Denmark.

Cauliflower and Cabbage Seed.

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Rickards Bros., 37 E. 19th St., New York.

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Johnson Seed Co., 217 Market St., Phila.

Chinese Primroses, Cinerarias, Cyclamens

Seeds.

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R. & J. Farquhar & Co., 6-7 So. Market St.,

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C. C. Morse & Co., 48-56 Jackson St.,

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H. E. Fiske Seed Co., Faneuil Hall Sq.,

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Augustus Zirngiebel, Needham, Mass.
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Braslan Seed Growers Co., San Jose, Calif.
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Ant. C. Zvolanek, Bound Brook, N. J.
Sweet Pea Seed—Mignonette Seed.
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Francis Brill, Hempstead, L. I., N. Y.
Garden Seeds.
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I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Mar-
ket St., Boston.
Pulverized Sheep Manure.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIREA

Spirea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.

STEVIA

C. Elsele, Philadelphia.
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VEGETABLE PLANTS

Samuel W. Shanklin, White Marsh, Md.
Celery Plants: Cabbages.
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Danish Ball Head Cabbage—Strong
straight root-pruned plants, ready for field,
from the best imported seed, \$1.50 per 1000.
Frank Shearer & Son, Market Gardeners,
Binghamton, N. Y.

100,000 field-grown tomato plants, C.
Jewel, L. Beauty, etc., \$1.00 per 1,000. 15
varieties cabbage, \$1.00 per 1,000; \$7.50 per
10,000. Celery plants, \$1.25 per 1,000; 10-
000 for \$10.00. 50,000 cauliflower, best
snowball, 50c. per 100; \$2.50 per 1,000.
Cash. Catalogue. F. M. Pattington,
Scipioville, N. J.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.
The Chicago Lifter.

VENTILATING MACHINERY. New
Model encased, self-oiling gear; Standard
Model Open Gear. Lord & Burnham, 1133
Broadway, N. Y.

VIOLETS.

H. A. Molatsch & Son, Nanuet, N. Y.
Gov. Herrick Violet.

WIREWOK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue.
Bolton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 83-40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

All standard frames in stock. Special de-
signs made to order in hurry-up time. N.
F. McCarthy & Co., 84 Hawley St., Bos-
ton, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for
price. Helm Carnation Support Co., Con-
nersville, Ind.

WHOLESALE FLORISTS**Boston**

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
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H. M. Robinson & Co., 15 Province St.,
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George A. Sutherland Co., 34 Hawley St.,
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Welch Bros., 226 Devonshire St., Boston.
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Wm. F. Kasting Co., 383-87 Ellicott St.,
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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E. F. Winterson Co., 45-49 Wabash Ave.,
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Poehlmann Bros. Co., 35 Randolph St.,
Chicago.
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Detroit

Michigan Cut Flower Exchange, 38 & 40
Broadway.
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J. K. Allen, 106 W. 23th St., New York.
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Wm. Stuart Allen Co., 53 W. 23th St.,
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J. S. Fenrich, 110 W. 23th St., New York.
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Ford Bros., 48 W. 23th St., New York.
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H. E. Froment, 57 W. 23th St., New York.
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Alex. J. Guttman, 43 W. 23th St., New
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E. C. Horan, 55 W. 23th St., New York.
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A. H. Langjahr, 55 W. 23th St., New York.
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James McManus, 42 W. 23th St., New York.
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Chas. Millang, 50 W. 23th St., New York.
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John I. Raynor, 49 W. 23th St., New York.
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W. F. Sheridan, 39 W. 23th St., New York.
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Traendly & Schenck, 44 W. 23th St., New
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John Young, 51 W. 23th St., New York.
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Fred Ehret, 1407 Fairmount Ave., Phila-
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J. B. Murdoch & Co., 545 Liberty St.,
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Dayton, O.
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**CELERY PLANTS: ASPARAGUS
SPRENGERI.**

Morel Bros., 624 E. Market St., Scranton,
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Is Your Name In The Above List? If Not, Why Not?

?

During Recess

"Hang Sorrow; care will kill a cat
And therefore let's be merry."

GARDENERS' AND FLORISTS' CLUB OF BOSTON; ANNUAL PICNIC.

The long anticipated picnic of the Boston Club is nearing its close as we go to press. About 200 of the members with their wives and children have been enjoying themselves at Dorchester Park, watching the games and romping under the shelter of the oak forest with which this picturesque park is shaded. The committee in charge of the events were J. W. Duncan, Robert Cameron, Duncan Finlayson, R. S. Edgar, M. Fuld, W. Downs, James Wheeler, Wilfrid Wheeler, H. M. Robinson. Official starter, Peter Miller, and official handicapper, Wilfrid Wheeler. In addition Kenneth Finlayson kept score for the quoits game and Mr. Flood was the power behind the megaphone through which the announcements were made. The boys' race, under 15 years, was won by W. Iliffe, George Palmer and Thos. Westwood being second and third respectively. Winners in girls' race, under 15 years, were Florence Lumsden, Harriet Coles and Florence Eisenhart. Married ladies won in the following order: Mrs. Robert Edgar, Mrs. D. Whyte and Mrs. Eisenhart. The potato race winners were Catherine Lally, Jean Westwood and Louise Eisenhart. Ladies over 16 years who sprinted 100 yards and won one, two, three, respectively, were Louis Eisenhart, Anna Robb and Jean Westwood. Boys under 15 years won out in the following order: Wm. Iliffe, Thos. Westwood and George Palmer. Boys under 7 years, J. L. McKenzie, W. Westwood and Charles Clark. Girls under 7, Edith Iliffe, Marjorie Iliffe and Ruth Cartwright. The game of baseball between the commercial and private men was won by the latter, 7 to 6. A most regrettable accident marred the quoit games, Kenneth Finlayson, who was at the post keeping score, being struck by a quoit on the side of his head, sustaining a severe cut. The remainder of the events will be duly reported in our next issue.

CHICAGO FLORISTS' CLUB PICNIC.

The Chicago Florists' Club held its annual picnic at Morton Grove, Ill., on Sunday, July 21. About five hundred florists and their wives, sweethearts and also the children made merry the whole day. Quite a number took advantage to visit the Poehlmann Bros. Co's greenhouses. Refreshments were served lavishly all day.

A guessing contest on a jar of beans made lots of fun, and when opened and counted in the presence of the people by Mrs. T. E. Waters the closest guesser was found to be E. C. Pruner, with the following as next, the second prize being divided between Miss M. Klunder, Mrs. C. A. Klunder, Al. Ebling and Miss C. Eisman. The tug of war was a heated contest, the retailers winning by a small margin. The ball game, retailers vs. wholesalers, resulted in a score of 5 to 2—6 innings. The other events were as follows:

Races—Girls, 10 years and under, 1st, Elsie Phifer; 2d, Madeline Bruns; 16

years and under, Alma Quirin, Manan Garland. Boys, 10 years and under, Ed. Flabin, Geo. Loutsh; 16 years and under, Fred. Schnapps, Earl Poehlmann. Young ladies, Annette Dupree, Mary Dupree. Married ladies, Mrs. B. Belcher, Mrs. C. A. Klunder. Trade, men, Al. Henderson, George Asmus Sack, Al. Ebling, Fred. Schnapps; Poehlmann Bros. employees, Geo. Sturin, Bert Dupree; Peter Reinberg's employees, John Hoser, L. Hoepner; Bassett & Washburn's employees, J. Einweck, A. Einweck; Geo. Reinberg's employees, A. Reinberger, B. Belcher; E. F. Winterson's employees, J. J. Shinaek, C. W. Scott; wholesale florists, H. Hirsch, Ollie Zech; Vaughan's employees, E. Fourth, Al. Henderson. Between the winners of the last mentioned seven races, H. Hirsch, Ollie Zech.

Hop, step and jump—Chas. Balluff, L. Blind.

Running broad jump—H. Hirsch, P. Miller.

The florists of Springfield, O., held their picnic at Eichholz park on July 16. J. M. Good and C. W. Schmidt had charge of the arrangements. In spite of the showers the program of sports was well carried out.

Special Philadelphia Convention Number

Will Be Issued August 17.

It will reach the best trade at the convention and all through the country.

Send Us Your Advertisement Now.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Competent assistant in flower, seed and bulb department. State experience and salary wanted. Address Schlegel & Fottler Co., Boston, Mass.

SITUATIONS WANTED

WANTED—Situation by young man to do landscape work or as foreman of a private place; has graduated from an agricultural school and has had four years experience. Address S. T., care of HORTICULTURE.

GARDENER wishes position on private place as head; competent in all branches of gardening, landscape work and improvements; care of live stock; capable of taking full charge; age 38; married, two children; best of references. Address Gardener, care of HORTICULTURE.

Obituary

Samuel Henshaw.

HENSHAW. At West New Brighton, Staten Island, on July 22, 1907. Samuel Henshaw, aged 73 years. Buried from his late residence, Egbert Ave., on Wednesday evening, at eight o'clock.

The above announcement clipped from the New York daily papers will bring a sense of sadness and loss to



THE LATE SAMUEL HENSHAW.

many who knew and loved this old time gardener who has now passed on to his rest after many weary months of painful illness. Mr. Henshaw was possessed of a happy, hopeful disposition, which, even in his sickness, never deserted him and which stayed with him to the end. His was a genial personality; his heart beat responsively whenever or wherever he came into contact with his brother gardener. Vigorous mentally and physically he was found always wherever the craft congregated—at meetings and exhibitions and always ready to lend a hand when there was anything to be done. He was one of the most active members of the old New York Horticultural Society, and later of the New York Florist Club, serving the latter as president for one term, also a member of the S. A. F. up to the time of his death.

Mr. Henshaw was born in Manchester, England, 73 years ago and came to this country fifty years ago. He did fine landscape work on many public and private grounds, including those of Wm. Rockefeller, Bronx Botanical Garden, Vassar Hospital and Columbia University. His last work was an exploring trip to the West Indies in search of plants for the Bronx Botanical Garden.

M. Louis Lacroix.

We regret to observe in the current number of "Le Chrysanthème" the announcement of the death of M. Louis Lacroix. Twenty years ago his name was well known to every enthusiast in Europe and probably in America, for he was a raiser of new chrysanthemums that figured prominently at most of our shows with conspicuous success.

Some of the best Japanese of his

raising that we remember were Mlle Moulis, M. Ardene, Parasol, Tendresse and Mlle Lacroix, which last named still remains in cultivation here. Then there was Viviani-Morel, a famous flower that held a foremost place in every European exhibition for many years and is not quite extinct yet. Fabian de Madiana, a remarkable variety of the Japanese Anemone type, was another and several others of the same section. A very important addition to the Incurved section Jeanne d'Arc, was one that helped M. Lacroix's reputation. Like M. Delaux and M. de Reydellet, his reputation as well as that of several of his other contemporaries was somewhat dimmed by the advent of M. Calvat, but he rendered valuable service to the cause in his day and generation. M. Lacroix died at the age of 66 years and was one of the florists of whom the town of Toulouse may well be proud.

C. HARMAN PAYNE.

London, Eng.

ROSE PLANTS BY MAIL.

(P. Joseph Lynch before the Florists' Club of Philadelphia, March 5th, 1907.)

While the subject assigned me only treats of roses by mail, I shall, nevertheless, take the liberty of extending the scope to the plant mail order trade in general. At first glance it might seem that this subject was too prosaic to admit of little that is new and interesting, especially to those not engaged in the mail order business. There is, however, much in common between the mail trade man and the numerous other branches of the florist trade. From the most humble beginning the mail order trade, beset as it has been with so many vicissitudes, has made marvelous strides. Very few of us realize the great work that is being done in this branch of our trade, a work that has brought untold advantages to everyone engaged in the florist business.

The Pathfinder of the Craft.

I can do no better than to repeat the opinion expressed upon a previous occasion, that your mail order man is the pioneer and pathfinder of the craft, and he has carried the gospel of loving flowers, especially roses (and how to get them and grow them), to the most remote parts of the country, and in a measure has been the educator of the masses, those who are not in close touch with the large centers of population where the rose grown for cut flowers can make its own appeal. He has been a factor in beautifying the waste places of our land, and the great work in which he is engaged has but commenced. He has had much to combat. First of all, the skeptical public in early times refused to believe that it was possible to send rose plants, or plants of any kind safely by mail, particularly to distant points. Then, too, in the beginning it would seem that the postal laws were framed with special reference to the mail order business, to prevent it from spreading to any material extent. Thirty-five years ago the rate of postage was the same as that of letter postage. No plant was allowed to bear a label, nor was the name of the firm sending the package allowed to appear on the

outside. It would be hard to imagine a condition of affairs more discouraging than this, but the germ of the mail order business was firmly rooted, and the early pioneers kept after the Post Office Department until these obnoxious conditions were modified and placed upon their present basis. The efficiency of the mail service has been improved, and now we are allowed to send seeds, roots and plants of all kinds under the rate of the third class postage, one cent for each two ounces or fractional part thereof. While the postal authorities have done much to encourage the mail order business there is yet ample room for further reform; in fact, with the annual deficiency in the revenues of the Post Office Department it would seem that there is a great opportunity to place the Department upon a business-like basis.

Better Mail Facilities Needed.

Not until there is concerted action in the mail order trade will we secure such concessions as we should have, and could undoubtedly get by unity of movement in this direction. While I will not cite the rates of the express companies as a criterion of all that is equitable and fair, yet in some respects they are far superior to our postal rates. For example, the express company will carry 100 pounds from Philadelphia to Pittsburg for 40c., while the Post Office Department would charge \$8.00 for 100 pounds of mail matter. The express companies conduct their business upon a profitable basis, and even the railroad company provides splendid accommodations for the public in their passenger traffic at a much less rate than they charge the government to carry the mails. It seems to me that mail matter, particularly in bulk, should be carried with reference to the distance covered, just the same as passenger traffic or express rates. It might be urged that this would bring about a great deal of unnecessary confusion, but were the country divided into sections or by meridians, and have a rate of postage to each section, it would not bring about any more confusion than is incident to the selling of railroad tickets or making express rates to various parts of the country. The question is one, however, so broad in its aspect that I shall not treat it further at this time, but it is a subject that might be carefully considered by the Society of American Florists. And, too, the matter of a parcels post system similar to that in vogue in Great Britain should be sought after as a measure that would revolutionize the mail order business to a very great extent.

Some Pernicious Practices.

I do not want to be classed among pessimists, but in these days of reform there is an opportunity to apply some of it to the mail order trade. Sending roses and plants of all kinds by mail and guaranteeing their safe delivery to any post office or express office in the United States is the fundamental principle which has made the sending of plants by mail no longer a risk from the purchaser's view point. Year after year large sums of money are spent in advertising and the sending out of catalogues, and the skeptical public has been won and has confidence in the mail order man, but in the endeavor to still further increase

our business there has crept in here and there abuses which should be eliminated. Through the trade papers there has been considerable discussion as to the advisability of giving premiums with every order. The practice is a pernicious one to my mind and there is really no excuse for it. We oppose the free distribution of seeds, but in our own business we do not oppose the free distribution of plants. There should be a flat price, a price that leaves a legitimate margin of profit, then the buyer knows just exactly what he is getting and what he has to pay for. There are other abuses which could be easily modified, which would add much to the moral tone of the mail order trade, such as misleading guarantees, which seem to grow more radical year by year, and the sending out of plants that are not true to name, which to my mind is one of the most damaging practices which besets our trade. I am not an advocate of trusts and so-called community of interests, but there should be a common interest among those engaged in the mail trade to bring them in closer touch with each other and modify many of the abuses which have crept in.

The Magnitude of the Business.

The mail order trade is one of interminable detail, and a visit to an establishment at this time of year would prove a revelation to the novice. A correspondent whose "airy persiflage" is always heard above the roar and din of the battle recently paid a visit to a mail order establishment, where he was shown upwards of a million small rose plants, being sent to nearly every State in the Union and foreign countries, such as China and Japan, where, notwithstanding the trip of four to five weeks, they invariably reach their destination in first-class condition. For a person who is never surprised at anything his astonishment at the vast amount of detail involved came in the nature of a real triumph. Human nature enters largely into our trade, and it must be realized that to sell goods to an army of different individuals through printer's ink and to hold this trade, requires first of all honesty of purpose and individual care for each and every order that is sent out. The mail trade man encourages the production of novelties, especially in roses, because each year he must have a leader in the different branches of his business, and nothing is so attractive as a new rose. There have been so many disappointments in the new roses from Europe that we must depend upon our own hybridizers, and for that reason it seems proper at this point to ask earnest support for the American Rose Society. The demand for good roses is ever present. We cannot secure too many Killarneys, Richmonds, Golden Gates, Kate Moultons, Queen Beatrices and new roses of those types. The hardness of many of the Hybrid Tea class has brought about a revolution in amateur circles, because the planter of the North can have roses throughout the entire growing season and at the same time they are sufficiently hardy to withstand the rigors of the most severe winters. We should undoubtedly secure a greater variety of Hybrid Teas, and our exhibitors of new varieties should be encouraged in every possible way.

Heating The Greenhouse

thoroughly and economically during the coming Winter is the problem now engrossing the mind of the Florist who takes time by the forelock.

I am in a position to help you to the best solution of this problem. I have done it for others, I can do it for you.

It will be to your advantage to consult me and get quotations on your heating plant either erected complete or for material ready for erection.

I have the largest line of C. I. and steel greenhouse boilers on the market and can give prompt shipments.

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Horticultural Architect and
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Sash opening apparatus and all kinds of greenhouse structural material.

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Additions.

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Sheldon, Ia.—John Christiany, range of houses.

Buffalo, N. Y.—C. E. Foss, two houses.

Passaic, N. J.—Hansen & Lundsted, house 40x150.

New Carlisle, O.—A. O. Nyswander, range of houses.

Savannah, Ga.—John Wolf, six houses, each 250 feet.

Paris, Ky.—John Christman, range of houses.

Danbury, Conn.—T. H. Judd, one house.

Toledo, O.—E. Kuhuke, three houses, each 22x100.

Findlay, O.—J. J. Waaland, rose house, palm house.

Melrose Lawn, Can.—John Eddy & Sons, three houses.

Hyde Park, Mass.—H. W. Vose, propagating house, 15x75.

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- 858,698. Fertilizer distributor. Nicklas H. Bloom, Iowa.
858,809. Potato Digger. James W. Hammett, Eureka, W. Va.
858,840. Flower Pot Hanger. Adrian Van Leeuwen, Jr., Worcester, Mass.
858,929. Planter. George W. Vaughn, Kenedy, Texas.
858,947. Mowing machine. John H. Brown, Carlin, Nevada, assignor of one-half to Frank Bogart, Jr., Carlin, Nevada.

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German and American

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Wizard Brand

Manures

Every Greenhouse operator and gardener knows that pure Sheep Manure is the most efficient and satisfactory fertilizer for putting new life and growing power into his gardens and the strongest plants—brightest foliage—most beautiful and perfect blooms result from its liberal use in the Spring.

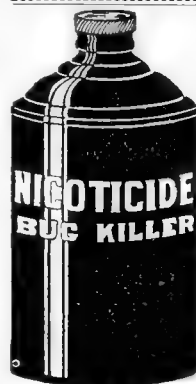
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Sheep Manure**

is absolutely pure. It is the best and most economical Greenhouse and Garden fertilizer on the market. Write today for prices and booklet. All kinds of dried manures, shredded or pulverized for sale.

THE PULVERIZED MANURE CO.

31 Exchange Avenue.

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The Best
Bug Killer and
Bloom Saver

For PROOF

Write to

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Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2 " " "	5.25	60 8 " " "	3.00
1500 3 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/2 " " "	5.80	48 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	3.60
320 5 " " "	4.51	24 12 " " "	4.80
144 6 " " "	3.16	12 14 " " "	4.80
		6 16 " " "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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Flower..

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W. H. ERNEST,

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Old English



Glazing Putty

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HAMMOND'S PAINT AND SLUG SHOT WORKS, Fishkill-on-Hudson, New York.

**Clipper
Lawn
Mower
Co. DIXON,
ILL.**



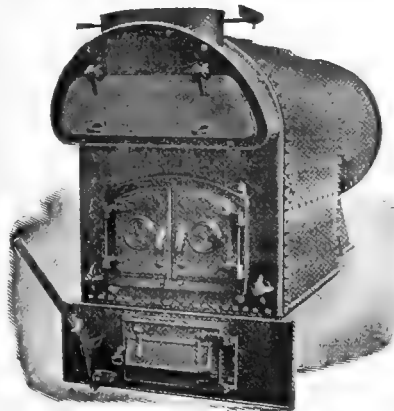
The Mower

that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter.

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PECKY CYPRESS BENCH LUMBER

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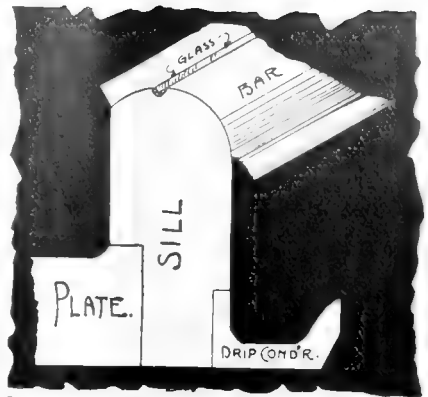
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of cutting Sash Bars to fit the gutters and plates.

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gives shade and still allows free circulation of air.

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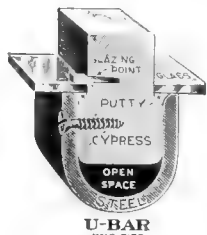


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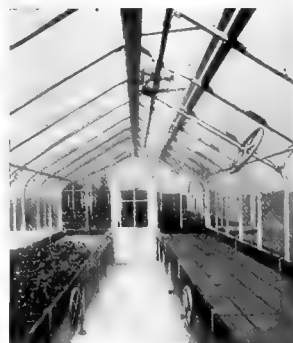


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HORTICULTURE

Vol VI. AUGUST 3, 1907 No. 5



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A Hardy Plant Garden.

Brilliant as is the display effect of the prevalent bedding-out system this method of garden planting has several defects. Much labor and expense are involved in wintering the plants—particularly when both spring and summer bedding are followed up and often the garden remains unattractive for several months of the year. On the other hand a garden of hardy plants comprising aquatics, herbaceous, alpine and rock plants, makes a charming combination and is a source of perpetual pleasure. Then the choice is such a wide one, affording flowers for every position, all kinds of soil, shade and sun, both serviceable and ornamental, that the wonder is that the bedding-out system is still with us. As the popular taste is largely created by those who cater to it, the display of a good thing being generally the needful preliminary to the demand for it, much of the blame must be imputed to our nurserymen for lack of proper display of these beautiful and interesting plants.

An ideal situation for a hardy plant garden is one which is sheltered from high winds and open to sun and air. Shrubs flowering at different months of the year, planted informally, make a beautiful background, and right in front is a charming situation for the herbaceous border.

The old method of making a border about six feet wide and planting all the taller plants in the back with a regular slope to the front, is far too formal and much too narrow, as the border of herbaceous plants is, as a rule, intended to be interesting and attractive throughout most of the year. This can be accomplished much better by having the border from 12 to 15 feet wide and the introduction of some of the taller varieties in the front, cutting out formality and avoiding the practical adoption of the bedding-out system.

Another old method on which we can improve is the planting of single plants at regular intervals. Here again much is gained by planting in large groups—not in circles or squares but of irregular shape, so that no one part of the border resembles another. The margin of a border is, as a rule, planted with box or laid with sod. A much better method for dividing the border from the walk is the use of rocks. It is immaterial about the size or form; 18 inches long by 12 deep are preferable; they should be sunk to such a depth that from 2 to 3 inches are seen above the level of the walk with a dividing rock alternately. With the adoption of this method, trimming and patching of the box or the continual use of lawn mower is entirely unnecessary and at the same time a congenial home is made



for the more rapid growing rock plants, such as aubretias, mossy-saxifrages, erysimum, iberis, ourisea, lysimachia and many others which ought to be allowed to ramble on to the walk to give informality to the margin of the border.

SOIL

As a general rule any kind of soil, well-drained and trenched to the depth of 2 feet, with the addition of barnyard manure will suit most of the herbaceous plants for several years without replanting, with the aid of annual topdressing of soil and artificial manure, when signs of growth are apparent in the spring.

The list of herbaceous plants is such a large one that only a few of the choicer ones will be mentioned. *Eremurus* is undoubtedly one of the best among the taller varieties and ought to have a place in every border. *Delphinium*, *cimicifuga*, *bocconia* and *aconitum* are all worthy of merit. Also *Incarvillea Delavayi*, *Eryngium alpinum*, *Morina longifolia*, *platycodons*, *yuccas* and *Gypsophila paniculata*. *Asperula longiflora* is one of the most useful for decorative purposes; it belongs to Greece and is much like *gypsophila*, growing to the height of 25 feet and flowers a month to six weeks earlier. *Dictamnus* and the Cambridge variety of *Monarda didyma* are also worthy of mention. Nothing affords greater opportunity for the exercise of individual taste than planting such a border to produce a good effect in color harmonies.

Through an Italian idea, the illustration of a pergola which forms the frontispiece of this paper shows an admirable entrance to a hardy plant garden. Clothed with suitable vines it makes a delightful promenade which helps to make a garden most enjoyable.

David Miller

National Sweet Pea Society

This is one of the associations due to the late R. Dean, who could not see why the rose alone should have a special society, but must inaugurate one for the carnation, the dahlia, the sweet pea, the chrysanthemum and, lastly, the potato, to say nothing of a few with a very limited membership, as the auricula and polyanthus, the pansy and viola and, I think, the narcissus; the wisdom of all this being very questionable. It cannot be denied that the sweet pea has greatly improved since the time that Brown of Sudbury sent out his first novelty, *Invincible Scarlet*, followed soon by *Invincible Carmine* and *Purple*, but a sweet pea specialist of today would not look at these and now we have names galore, in fact quite an *embarras des riches*, and doubtless, the list will be largely augmented when the report of Tuesday's show is drawn up. To the late Henry Eckford, belongs the honor of raising this annual to the rank of a florist's flower, but since his demise many enthusiasts, both professional and amateur, have taken it up and, as it is as sportive as a *zoudepelar-gonium*, we shall soon be flooded with novelties (see head line *Daily Mail*, "150 novelties"). Absurd, but the committee soon weeded these down to seven, Elsie Herbert and Nancy Perkins being about the best of these, but even then the task of the judges was no sinecure, as there is still a great sameness in many kinds, John Ingmar being synonymous with Mrs. Wm. King and being suspiciously like George Herbert. A creamy buff, Mrs. Rothero and Clara Curtis may perhaps be dubbed yellow, though it needs much exercise of the imagination—and a true butter cup yellow is yet to seek. France, America and Germany all had experts there, W. Atlee Burpee representing the States, and all agreed that the show was the finest they had attended.

The flower was exhibited in every way—close and loose bunches, sprays and in tiers of bamboo tubes, as well as glass vessels, of all forms, these being used freely in the decorated tables, while all kinds of foliage was used to display the flowers to the best advantage—that of the common asparagus especially. C. W. Breadmore, a coming pea man, took the first honors in the nurserymen's class, with a superb lot, and Mr. Stevenson won the Eckford challenge cup, H. Eckford and Mrs. Collyer being two of the best flowers in the collection. Wales seems most favorable to the proper development of this flower, and the Sutton silver challenge cup was taken by a Welshman—a good second being Mr. Jones, also Welsh (Ruabon). This pre-eminence is most likely due to the amount of soluble calcium in the soil.

Summing up, though open to correction—we think Evelyn Byatt, Gladys Unwin, Helen Pierce, Henry Eckford, Norah Unwin and King Edward VII, about the best and most useful half-dozen to be found in the show.

Thomas Burpee & Co.

Notes on Floral Arrangement

A fairly wide survey in different localities confirms the impression that improvement is needed in the average floral work turned out for profit. Good material is used up with painful uniformity. A sordid materialism is unfavorable to artistic expression; the Greek idealists were more loftily inspired; they worked not merely for glory or monetary gain but for love of art and gave not only the elements of strength and beauty to massive pillar or rounded arch but in all sorts of out of the way corners put in the most perfect and finished tracery.

Many today are crude copyists rather than cunning creators. It is true the general public are easily satisfied where flowers are concerned, but the true artist will lift the public taste to a higher plane, adding to pleasure a thrill of delight by giving the work done that indefinable grace which all intuitively feel and appreciate if they cannot state, that delicacy of touch which gives distinction to the commonest flowers when suitably handled. Ladies are all supposed to have native ability for this work, but experience does not confirm this idea; it is largely temperamental in either sex, coupled with that genius which is an infinite capacity for taking pains.

Floral art may be described as the setting of Nature in her own dress, the focusing of beauty in a way impossible to wild nature. Always due regard must be paid to the real which in the last analysis will be found to be the ideal; this note of naturalness should always predominate; originality should be encouraged but always kept subordinate to the natural idea lest gracefulness itself become grotesque. Simplicity with fidelity to nature should be ruling ideas of our art. The best effects can be made with few flowers and plenty of foliage; roses especially should always be adorned with their own foliage.

The wreath still remains pre-eminent as a memorial emblem and while great variety of styles are made, and indeed desirable, a few notes on general lines may be of practical service. A little point which gives effect, is to alternate the foundation foliage in long and then short lengths all round, thus breaking up the conventional circle; foundation flowers on the outside may be treated in the same way and the larger outstanding flowers should not be vertical but laid a little on one side in alternate and opposite ways. This obviates straight lines which Nature avoids quite as much as the proverbial vacuum. Arrange lightly but see to it that there are no gaps and that best flowers are well seen, veiling the worst with foliage or fern. White should predominate, colors being kept low and lightly veiled; cream, mauve and pink blend with white, but one shade of color both in flower and foliage is more effective than a kaleidoscopic arrangement. The whole wreath, if large, should give the ideas of richness, solidity and grace; if small, of lightness throughout.

Shower bouquets admit of much originality of treatment. A common error is to make too massive and the trails too long; both these points, however, should be adjusted according to the height of the recipient. Orchids should be arranged in natural sprays. Carnations and roses have in sweet peas a close rival; all may be done in self colors with own foliage and fern. As trails, *Asparagus plumosus* is too heavy, *A. Sprengeri* a little coarse, and *smilax* looks better than either. Flowers on trails should be graduated in size from top to bottom.

The demand for something new is a natural and a growing one, and every florist has to provide daily the element of surprise. Often one's ideas are limited and cramped by patrons who sometimes have to be indulged against one's better judgment; usually, however, buyers will take advice if they feel they are in competent hands. This is your opportunity to satisfy the desire for novelty in a natural way, the time for initiative, originality and resource. The contention now put forward is that if one loves the work and puts pains and brains into it monetary returns and public appreciation will be the worthy reward and inevitable sequence.

Edgar Elvine

Peach Blight

Peach blight has been in California for over ten years but has become prominent only during the last two or three years; but bids fair to attain the proportions of a national pest. Already this disease has become very serious, especially in some of the counties and the writer has seen large areas of the orchards completely killed by it.

The peach blight is caused by a parasitic fungus (*coryneum beyerinkii*) which is easily identified as it is found mostly on the lower branches and fruit spurs. It appears first in reddish circular or oval spots about one-eighth of an inch in diameter, to be found on the outside bark. As the disease progresses these spots become darker. Upon the badly affected branches will be seen a gummy exudate oozing out just below the buds. The

disease appears to be more destructive on the earlier varieties.

Many California peach growers have done nothing to check this disease and consequently their orchards are ruined. The blight is not especially hard to control if attended to at the proper time, but if the orchard is neglected it is only a question of a few years when the blight will gain possession of it.

The writer has carried on several experiments upon the treatment of this disease and has had excellent results from spraying early with Bordeaux mixture. Under the California conditions this material should be applied from the first to the middle of December, while good results have even been obtained from spraying in October and November.

Up to the middle of December the mycelium which is the active part of the fungus is on the outside of the bark; after that the fungus becomes active and quickly buries itself under the bark, where it lives unmolested. To try to reach it with a spray, in this condition, would be only a waste of valuable material and time. I have found that the best sprays to use are as follows:

30 lbs. of copper sulphate (blue stone)
35 lbs. of unslacked lime
200 gals. of water

I have also seen good results from the following sprays:

28 lbs. of copper sulphate (blue stone)
30 lbs. of unslacked lime
200 gals. water

15 lbs. of copper sulphate (blue stone)
25 lbs. of unslacked lime
100 gals. water

If your orchard was in a bad condition last year and although you have sprayed carefully this last year there still remains considerable blight in it, do not get discouraged but try another year, for it generally takes two or three seasons to produce a good clean orchard after it has been infected badly. When you once have it thoroughly cleaned out you should never be troubled very seriously with the blight again providing you spray thoroughly with a good standard mixture of Bordeaux and above all spray *on time*.

S. S. Rogers.

**Annual S.A.F. Convention Number Will be
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AUGUST 3, 1907

NO. 5

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The gardener in the ascendant

It is very gratifying to read of the stand taken by the president of the City Club of New York with regard to the appointment of a superintendent of the parks of Manhattan and Richmond boroughs. "To convert the office into what it should be," Mr. McAneny recommends an increase in the salary and the selection of a man of high standing in the landscape gardening profession who will bring to the office the efficiency and the technical ability that it demands. This has the right ring to it and indicates

the approach of an era of rational methods in the management of the great public reservations in many cities where hitherto politics and incompetency have been in control and neither the services nor the counsel of the proficient gardener were wanted. HORTICULTURE welcomes with delight every evidence of a higher appreciation of the gardener and his art and every indication of increasing self-respect on the part of the gardener himself. As the latter gains strength the former will also develop. It is now up to the gardener to earnestly proceed to demonstrate his fitness for supreme responsibilities. "Too low they build who build beneath the stars."

Floral gawes

St. Louis is now the possessor of a wonderful "flower globe" said to be a "clever representation of the earth, all the oceans, continents, etc., being exactly represented by plants and the lines of latitude and longitude correctly indicated by strings." It stands fourteen feet high and some of the local newspapers seem to be proud of the thing and the public clamor to gaze upon it. Here is an opportunity for good missionary work on the part of the youthful horticultural society as well as of the local florist club. They are addicted to these things over in England, too, as would appear from an account recently published in the Journal of Horticulture describing the ceremony of setting in motion a floral clock at Bridlington, built by the town gardener, where thousands of people gathered to see the mayoress cut the white ribbon with a pair of silver scissors and set the clock going. It is stated that this floral time-piece is "the only one in England," which is at least encouraging. We are not informed whether these contrivances play music as they revolve but this addition would be a very simple matter and no doubt another season will see them doing this as well as other wonderful mechanical stunts.

The value of good seed

It would appear from the tenor of some of the remarks at the recent meeting of the American Seed Trade Association that the wholesale dealers are "in a state of mind" as to recent and proposed legislation concerning inspection and purity of agricultural seeds. Some express themselves as ready to welcome the closest scrutiny; others can see little in the proposed methods but meddling and persecution, and are particularly severe in their criticism of the State Experiment Stations; all emphasize the necessity of extreme caution in the adoption of methods and selection of officials in the campaign for seed purity—so called. It is our belief that there are no people more sincerely in favor of good seeds than the seedsmen; quality rather than price is the foundation on which they must make their bid for confidence and the assumption that they are disposed to practice or condone adulteration does not appear to be borne out by either the logic or the facts in the case. Has any one ever seen grass seed of 100 per cent. purity? We think not. One ultimate result that should be aimed at is the education of the farmer to a proper appreciation of the vital importance of good seed to him from a pecuniary point of view and of the small country dealer to a realization that cheapness is of small consequence as compared with quality. Of the higher grade grass and clover seeds there is never any surplus. Every pound of it is in demand and naturally commands a good price, but every seedsman knows and every farmer should know that it is well worth the difference.

AFTER ADJOURNMENT.

Referring to the flower show of the Elberon Horticultural Society, the Long Branch Record says that "no other resort on the Atlantic coast could have such a show. None of the other places have either the flowers or the horticulturists." This is pretty strong talk. We rather like it. The community that hasn't got the courage to blow its own horn will run to seed before any other community will butt in to do it for them. Whoop'er up for Long Branch.

A correspondent of the Journal of Horticulture advises young gardeners who may be out of employment to take a hand at floral decorating for some of the large floral establishments in London and believes that any young gardener of an observant nature could not fail to learn much to his advantage. We agree, but are at loss when we read further down that one smart young gardener, graduated from such a position, "now holds a horticultural lecturer's position in New York at a very good salary" and we wonder where the young man can be, as we have never heard of a position of this sort in New York or elsewhere.

The National Carnation and Picotee Society of England announce that the old system of exhibiting carnations in a "dressed" state is not to be insisted on invariably in the future and the conditions of the schedule have been modified so as to give the same encouragement to exhibitors of undressed as of dressed blooms, in the hope and belief that this will considerably increase the interest in and the number of exhibitors. "Dressing" is a process unknown to American exhibitors and unfamiliar to most carnation exhibitors in this country. From our viewpoint the English society has acted wisely in letting down the bars.

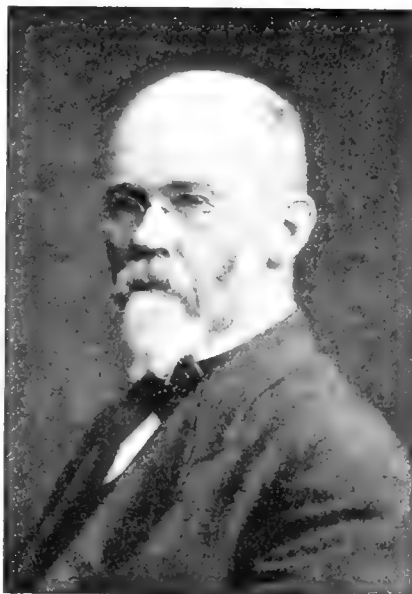
A gardener, writing in the Journal of Horticulture notes that the judging at flower shows has not kept pace with the improvements in other departments of the horticultural world. He refers approvingly to the system in use in certain instances, of cards on which are put down the record of points of superiority, so that competitors, spectators and all interested have the satisfaction of knowing at once the relative values of the exhibits, and recommends their general adoption as a means of avoiding the criticism, ill-feeling and selfishness displayed after the awards have been made. It is a good idea to acquaint the unsuccessful competitor with his shortcomings as they appear to the judges' eyes. Moreover, any innovation tending to give useful information to the visitors at a horticultural exhibition is worthy of trial.

MOVEMENTS OF GARDENERS.

W. P. Mahan has taken a position with W. B. Dinsmore, Tuxedo, N. Y., as head gardener.

William Hayes, gardener to Mrs. George B. Nickerson, Dedham, Mass., has gone to Ireland with his family for a six weeks' trip.

GREENHOUSES AND ROSE HEDGE OF JOSEPH HEACOCK.



JOSEPH HEACOCK.

Herewith is a portrait of one of the eminent plant growers of Philadelphia, whom the convention visitors will be privileged to meet and whose services, as chairman of the hotel committee of the Florist Club of Philadelphia, will, no doubt, have as important a bearing on the comfort of the visitors as those of any other individual connected in any manner with the great event. Mr. Heacock needs no introduction to the majority of our readers for has he not been supplying them with palms of unexcelled perfection for 10, these many years, and have they not been well aware of the roses from that Wyncote establishment which have been scooping so many first prizes at the exhibitions? As heretofore, Mr. Heacock will make a fine display at the trade exhibition of the S. A. F. in Philadelphia. Read his advertisement in this issue of Horticulture.



SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Preliminary Program of the 23rd Annual Convention and Exhibition at Philadelphia, Pa., August 20-24, 1907

OFFICERS FOR 1907.

PRESIDENT—Wm. J. Stewart, 11 Hamilton Pl., Boston, Mass.
VICE-PRESIDENT—John Westcott, Ridge and Lehigh Aves., Philadelphia, Pa.
SECRETARY—P. J. Hauswirth, 232 Michigan Ave., Chicago, Ill.
TREASURER—H. B. Beatty, Farmers Bank Bldg., Pittsburg, Pa.

DIRECTORS.

For one year—E. V. Hallock, Queens, N. Y.; W. H. Elliott, Brighton, Mass.

For two years—F. H. Traendly, New York City, N. Y.; Theo. Wirth, Minneapolis, Minn.

For three years—Samuel Murray, Kansas City, Mo.; J. K. M. L. Farquhar, Boston, Mass.

State Vice-Presidents.

Alabama—E. A. Beaven, Evergreen.
 California—Hans Plath, San Francisco.

Colorado, J. A. Valentine, Denver.
 Connecticut—Peter Zuger, Hartford.
 Dist. of Columbia—W. H. Ernest, Washington.

Florida—C. D. Mills, Jacksonville.
 Georgia—L. A. Berckmans, Augusta.
 Illinois, N.—Geo. Asmus, Chicago.
 Illinois, S.—Frank L. Washburn, Bloomington.

Indiana—J. A. Evans, Richmond.
 Iowa—W. A. Harkett, Dubuque.
 Kansas—Oscar Roehr, Topeka.
 Kentucky—Aug. R. Baumer, Louisville.

Louisiana—M. Cook, New Orleans.
 Maryland—Wm. Weber, Oakland.
 Massachusetts—E. L. Pierce, Cambridge.

Michigan—W. E. F. Weber, Sault Ste. Marie.

Minnesota—John Monson, Minneapolis.

Mississippi—S. W. Crowell, Rich.
 Missouri, E.—W. C. Young, St. Louis.

Missouri, W.—Geo. M. Kellogg, Pleasant Hill.

Nebraska—Geo. H. Swoboda, Omaha.
 New Hampshire—Aug. Gaedeke, Nashua.

New Jersey—C. H. Totty, Madison.

New York, E.—Chas. Lenker, Freeport. W.—Chas H. Vick, Rochester.
 N. Carolina—J. Van Lindley, Pomona.

Ohio, N.—Geo. Bayer, Toledo.
 Ohio, S.—J. B. Heiss, Dayton.

Pennsylvania, E.—P. J. Lynch, West Grove. W.—E. C. Reineman, Allegheny.

South Carolina—C. A. Moss, Spartanburg.

South Dakota—E. C. Newbury, Mitchell.

Tennessee—C. L. Baum, Knoxville.

Virginia—H. Brown, Richmond.

Washington—Amv K. Luffman, Spokane.

West Virginia—C. P. Dudley, Parkersburg.

Wisconsin—Fred Holton, Milwaukee.
 Ontario—J. H. Dunlop, Toronto.

Botanist, Prof. L. H. Pommel, Ames, Iowa.

Pathologist, Dr. B. M. Duggar, Columbia, Mo.

Entomologist, A. H. Kirkland, Beacon Building, Boston, Mass.

Superintendent of Exhibition, David Rust, Horticultural Hall, Broad and Locust Streets, Philadelphia, Pa.

Sergeant-at-Arms, Harry A. Bunyard.

Plant Registration in charge of Secretary.

Legislative Committee—Benj. Hammond, Fishkill-on-Hudson, N. Y.; L. B. Coddington, Murray Hill, N. J.; Wesley Greene, Des Moines, Iowa; E. A. Moseley, Washington, D. C.; Patrick Welch, Boston, Mass.

Committee on Convention Sports—Wm. Graham, Philadelphia, Pa.; A. B. Cartledge, Philadelphia, Pa.; J. J. Beneke, St. Louis, Mo.

Transportation.

A reduced rate of one and one-third fare for the round trip on the certificate plan has been granted by the Trunk Line Association (in whose territory Philadelphia is situated), and up to the time of the printing of this circular this reduced rate has been concurred in by the New England Passenger Association, and the Eastern Canadian Passenger Association.

The following directions are submitted for your guidance:

1. Secure tickets at full fare for the going journey, and when purchasing same request a certificate from the ticket agent. Do not make the mistake of asking for a "receipt."

2. Present yourself at railroad station for ticket and certificate at least thirty minutes before departure of train.

3. Certificates are not kept at all stations. If you cannot secure certificate at your station, agent will inform you where same can be secured, and you can buy a local ticket thence, and there take up a certificate and through ticket.

4. On your arrival at the meeting, present your certificate to P. J. Hauswirth, Secretary.

5. The special agent of the Trunk Line Passenger Association will be in attendance on August 20th, 21st and 22nd to validate certificates. You are advised of this, because if you arrive at the meeting and leave for home prior to the special agent's arrival, you cannot have the benefit of the reduction on the home journey. Similarly, if you arrive later than August 22nd, after the special agent has left, you cannot have your certificate validated for a reduction returning. Under the rules of the Association each certificate holder will pay the joint agent 25 cents for validating his certificate.

6. Be sure to obtain a certificate, as it is necessary to have at least one hundred certificates to secure the reduced rate.

7. You will be entitled, up to August 28th, to a continuous passage ticket to your destination by the same route over which you made the going journey at one-third the limited fare.

The Central Passenger Association

will not join in the reduced rate of a fare and one-third, for the reason that a number of States have provided by a law for a standard rate of two cents per mile, particularly in the territories covered by this association. It has, however, made a special concession to our Society in that it will sell a through ticket to Philadelphia at a rate of two cents per mile in the territory covered by this Association, and at the reduced rate of a fare and one-third through the territory covered by the Trunk Line Association. This special concession is only for those attending the session and not for the general public. The special tickets can be obtained on card orders secured direct from P. J. Hauswirth, Secretary, 232 Michigan Ave., Chicago, Ill. The Central Passenger Association will furnish the Secretary with these card orders, and should you reside in the territory covered by the Central Passenger Association and desire to take advantage of this special concession you must obtain from the Secretary a card order.

In writing for card orders be sure to give the number required, as each person must have one.

These special tickets will be on sale only on August 17th and 18th. It is suggested that you obtain information from the railroad officials in your respective cities relative to the rate as issued by all railroads covering the Jamestown Exposition.

The Trade Exhibition.

The trade exhibition will be located in Horticultural Hall, corner Broad and Locust streets. Growers of plants, seeds, bulbs, shrubs and trees, dealers in florists' supplies, greenhouse requisites, building material for greenhouse construction, heating apparatus, etc., can here meet the best buyers in the profession.

N. B.—Exhibitors are reminded that the duties of the judges are limited to the consideration of exhibits and to the making of awards to novelties and improved devices only. Exhibitors are required to make previous entry of all such exhibits with the superintendent in writing. Full rules and regulations, together with diagrams of the exhibition hall, may be obtained from David Rust, Horticultural Hall, Broad and Locust streets, Philadelphia, Pa., superintendent, to whom all applications for space should be made.

Payment of Dues.

It is important that all members forward their dues to the secretary in advance, as the possession of a badge and a membership receipt for 1907 is absolutely necessary before any individual can sign the roll book and receive invitation cards for any entertainment provided. On receipt of \$3.00 from those who have paid the membership dues for 1906, or of \$5.00 from all others (in accordance with our laws), the proper certificate and the badge for 1907 will be mailed from the secretary's office. Be sure to bring with you to the session your receipt for dues for 1907. The name and address of the secretary is P. J. Hauswirth, 232 Michigan avenue, Chicago, Illinois.

PROGRAMME.

The sessions of the convention will be held in the "Broad Street Theater," opposite Horticultural Hall.

Opening Session, Tuesday, August 20, 1907, 2 P. M.

The members will be welcomed on behalf of the State by Hon. Edwin S. Stuart, Governor, and on behalf of the city by Honorable John E. Reymann, Mayor. W. W. Castle, of Boston, Mass., will respond to the welcoming addresses. The annual address of the president of the society, and the reports of the secretary, treasurer, state vice-presidents, committees and other officials will be presented.

Judging Exhibits.

Immediately after the close of the opening session the judges of the exhibits will examine same and prepare their reports upon the novelties and new inventions in the trade exhibition.

President's Reception, 8 P. M.

The president of the society will receive the members at 8 P. M. in the "Broad Street Theater" under the auspices of the Philadelphia Florists' Club. Music and refreshments.

Second Day, Wednesday, August 21, 9.30 A. M.

Judges of exhibits will present reports. Addresses will be presented on the following subjects:

Hardy Shrubs—How to Plant and Treat Them. S. C. Moon.

The Effective Arrangement of Hardy Perennial Plants. Ernest Hemming.

Hardy Bulbs and Tuberous Rooted Perennials. E. V. Hallock.

Bedding Plants—Where and How to Use Them. A. Frey.

Selection of Next Meeting Place and Nomination of Officers.

The selection of the location of the next meeting (polls open one hour), nomination of officers and roll-call of states for nominations for state vice-presidents for next year will take place at this session.

Ladies' Auxiliary.

The Ladies' Auxiliary will convene in session.

Trip Up the Delaware.

On invitation of H. A. Dreer, Incorporated, the society will board the excursion boat leaving Arch street wharf at 1 P. M. sharp, for a trip up the Delaware River to Riverton, N. J.

Shooting Tournament.

The team and individual shooting contest will take place at the Florists' Gun Club grounds, Wisconsin. For entries and information, address A. B. Cartledge, 1514 Chestnut street, Philadelphia, Pa.

Wednesday, 8 P. M., Illustrated Lecture.

An illustrated lecture will be given by J. Otto Thilow in the "Broad Street Theater," the subject being "The Flora of Yellowstone Park and Puget Sound."

Discussion of Recommendations in President's Address.**Reports of Special Committees.****Third Day, Thursday, August 22, 9.30 A. M.**

Subjects for discussion at the morning session will be "Horticultural Education":

Horticultural Education in the Common Schools. V. Hallock.

Horticultural Education in Agricultural schools. Theo. Wirth.

Horticultural Education by Horticultural Societies and Clubs, including a review of the work of the Boston Landscape Class. John K. M. L. Farquhar.

Discussion on Above Subjects.**Election of Officers, 10 A. M.**

During the discussion on the above subjects as presented covering Horticultural Education the election of officers for 1908 will take place, the polls being kept open one hour, and until all legal voters in line at that time shall have an opportunity to cast their votes.

Question Box.

The Question Box will be opened and general discussion had upon the subjects therein referred to.

Bowling Tournament.

The bowling contests for teams representing the various Florists' Clubs will take place at 1.30 P. M.

The ladies' bowling contest will take place at 2 P. M.

Location of alleys will be announced later. For further information inquire of Wm. Graham, chairman Committee on Bowling, 104 South 13th street, Philadelphia, Pa. Handsome trophies will be provided.

Annual Meeting Florists' Hail Association of America.

Broad Street Theater, 3.30 P. M.

Thursday Evening.

Session open 7.30 P. M.

The National Flower Show.

Discussion will be had regarding the National Flower Show to be held in 1908.

Unfinished Business.

Two-minute talks by members on general subjects of advantage to the society.

American Carnation Society.

Immediately after the adjournment of the evening session a meeting of members of the American Carnation Society will be held.

Friday, August 23.

The program as arranged for the fourth day, Friday, is as follows:

10.00 A. M.—The society will be the guests of the Philadelphia Florists' Club, at "Belmont Mansion," Fairmount Park.

The visiting ladies will be taken to Willow Grove and there entertained. Special announcements covering entertainment will later be made by the Philadelphia Florists' Club.

Saturday, August 24, 10 A. M.

Meeting of Executive board.

Officers of the Philadelphia Florists' Club.

President, S. S. Pennock; Vice-President, Fred. Hahman; Secretary, David Rust; Treasurer, J. William Colflesh.

Chairmen of Convention Committees.

Exhibits, David Rust, Horticultural Hall; reception, S. S. Skidelsky, 324 N. 24th street; hotels, Joseph Heacock, Wyncote, Pa.; entertainment, Fred. Hahman, Harrowgate Lane; finance, C. D. Ball, 3400 Rhawn street; ladies, C. D. Ball, 3400 Rhawn street; bowling, Wm. Graham, 104 So. 13th street; shooting, A. B. Cartledge, 1514 Chestnut street.

P. J. HAUSWIRTH, Secretary.

ST. LOUIS TO PHILADELPHIA.

In the rates and routes given Mr. Wm. C. Young, State-Vice President, S. A. F., the \$25 rate quoted was in error to Jamestown via Philadelphia, as this ticket does not carry any stop-over.

The sixty day, \$30.60 ticket with 10-day stop-over at Philadelphia via rail to Norfolk, stop-over at Norfolk, via boat to Washington, stop-over at Washington, Baltimore, Harrisburg, Pittsburgh, etc., is the best ticket and will be used largely by the florists.

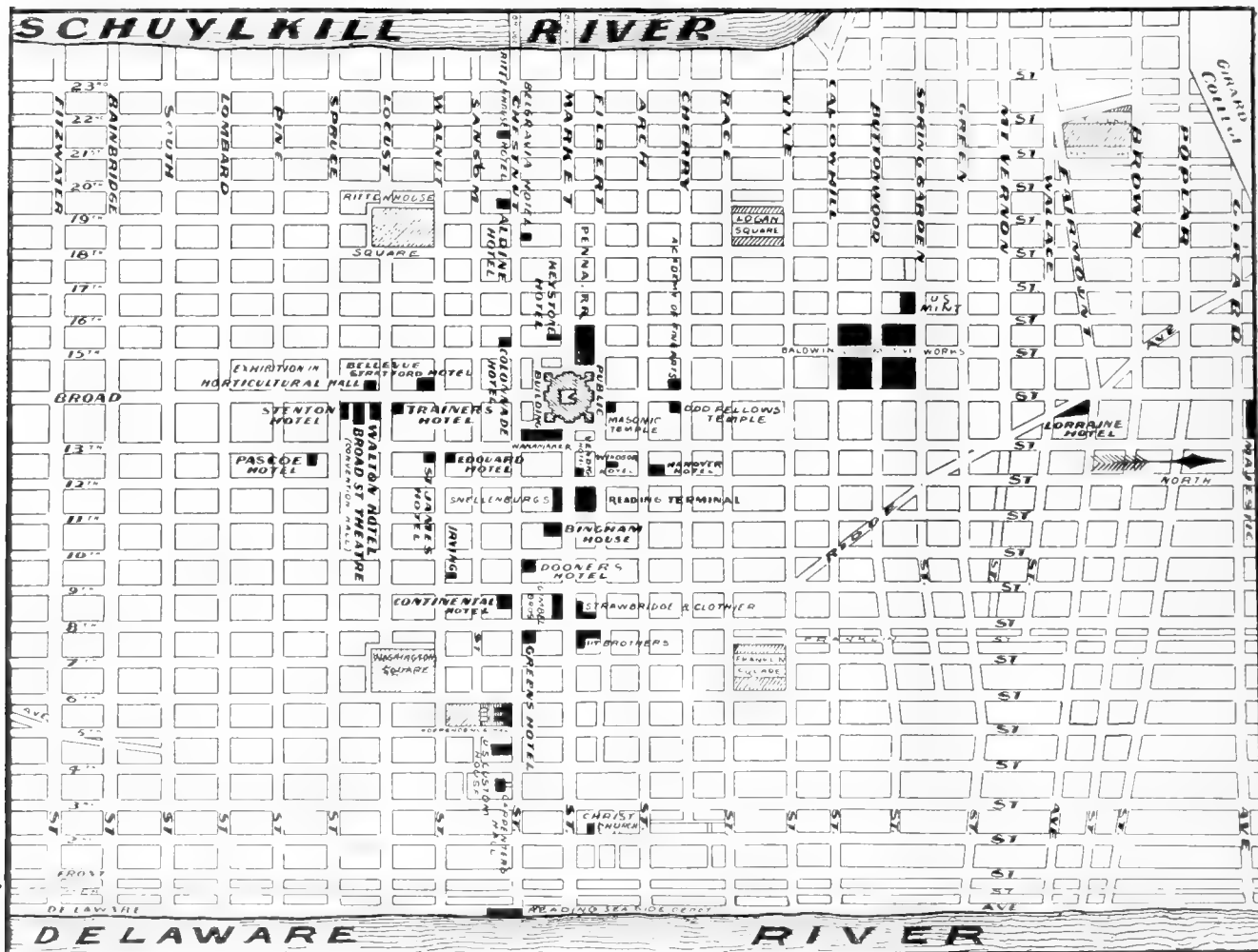
Fifteen-day excursions to Atlantic City, etc., leaving Buffalo at 9 A. M., and 9 P. M., Aug. 16., and allowing a 10-day stopover at Philadelphia on the going trip are announced by the Pennsylvania railroad. This may be found advantageous for some who may feel inclined to start for the S. A. F. convention as early as Aug. 16.

The S. A. F. convention is promised a delegation of twenty-five at least from Detroit, while nearby towns may furnish almost as many more participants.

ELBERON (N. J.) HORTICULTURAL SOCIETY.

The second annual flower show of this Society was opened on July 24 with a characteristic speech by the Mayor, introduced by President Wm. D. Robertson. R. H. Hughes was manager of the exhibition and he proved to be "the right man in the right place." Among the prominent commercial firms represented in the displays were H. A. Dreer, Phila.; Lager & Hurrell, Summit, N. J. The gardeners on the summer estates of Long Branch, Deal, Asbury Park and Rumson were all in evidence, among the large exhibitors in this class being W. D. Robertson, Fred Dettinger, Peter Murray, Jas. Kennedy, Anthony Bauer, Benj. Wyckoff, Aug. Grieb, Jas. Dowlin, J. H. Gramman and Eugene O'Rourke. The judges were Alex. McKenzie of Glen Cove, Wm. Turner of Oceanic and Thos. Brannigan of New York.

DIAGRAM OF STREETS AND HOTELS IN VICINITY OF S. A. F. CONVENTION HEADQUARTERS, PHILADELPHIA.



LIST OF CONVENTION HOTELS.

The Hotel Committee take pleasure in recommending the following Hotels for the accommodation of visitors at the August Convention.

Names	Location	American or European	Can Accommodate	Rate per Day.
Aldine	1914 Chestnut St.	Amer. & Eup.	500	Amer., \$4.00; Eup., \$2.00
Belgrave	18th & Chestnut Sts.	European	150	\$2.50 with bath.
Bellevue-Stratford	Broad & Walnut Sts.	...	350-400	\$2.50 to \$4.00; with bath, \$4.50 to \$10.
Bingham	11th & Market Sts.	...	...	\$1.50.
Colonnade	15th & Chestnut Sts.	...	250-300	\$1.50; special rates; a few rooms at \$1.00.
Continental	9th & Chestnut Sts.	...	...	\$1.50 to \$5.00.
Dooner's—Men only	10th & Chestnut Sts.	...	...	\$1.00 to \$2.00.
Edouard	13th & Walnut Sts.	...	...	\$2.50 2 in a room; \$3.50 with bath.
Green's—Men only	8th & Chestnut Sts.	...	...	\$1.00 to \$1.50; \$1.50 to \$2.50 double with bath
Hanover	12th & Arch Sts.	Amer. & Eup.	...	\$1.00 to \$5.00, Amer. preferable to Eup.
Irving	917 Walnut St.	American	35-40	\$2.00 to \$3.00.
Keystone	1524 Market St.	European	200	\$0.50 to \$1.50.
Lorraine	Broad & Fairmount Ave.	Amer. & Eup.	...	Amer., \$3.00; Eup., \$1.50.
Majestic	1207 N. Broad St.	Amer. & Eup.	150-175	\$2.00.
Normandie	26th & Chestnut Sts.	American	150-200	\$3.00 to \$5.50, bath with all rooms. Roof garden.
Pascoe	313 S. 13th St.	European	150	\$1.00 to \$2.50.
Rittenhouse	2132 Chestnut St.	...	400	\$2.00 to \$2.50; most rooms double.
Stenton	Broad & Spruce Sts.	...	75	\$1.50
St. James	13th & Walnut Sts.	...	...	\$2.00.
Trainer's—Men only	Broad & Locust Sts.	...	35	\$1.00 to \$2.00.
Vendig—Men only	12th & Market Sts.	...	100	\$1.00 to \$2.50.
Walton	Broad & Locust Sts.	...	...	\$1.50; free committee rooms.
Windsor	1217 Filbert St.	Amer. & Eup.	...	Amer., \$2.00; Eup., \$1.00.

If further information is desired, write to the Chairman of the Committee.

JOSEPH HEACOCK, Chairman, Wyncote, Pa.
ROBERT KIFT, 1725 Chestnut St., Philadelphia.
GEORGE C. WATSON, Ninth and Market Sts., Philadelphia.
LEO NIESSEN, 1209 Arch St., Philadelphia.

TARRYTOWN HORTICULTURAL SOCIETY.

The monthly meeting of the above society was held on the 26th inst. Mr. Robt. Angus ably opened a discussion on the judging of vegetables, which

was afterwards well threshed out by the members—it being generally conceded that too much merit was placed on size at the expense of table value. A prize is offered at the August meeting for the best sixteen varieties of vege-

tables. The annual outing of the society takes place at Rye Beach, Aug. 6th, when it is expected the boys will all be feasted on fish.

D. McFARLANE.
Cor. Sec.

MARYLAND STATE HORTICULTURAL DAY, SEPT. 24, 1907.

The Maryland State Horticultural Society will hold its summer meeting at the Jamestown Exposition, September 24th. Arrangements have been made through the department of special events to have this date known as the Maryland Society's Day. Every effort will be made to have a full attendance of the association from all parts of the State. It is thought that the reduced rates from all parts of the State, together with the selection of date, which will be an ideal time to visit the Exposition, as well as the fact of the American Pomological Society, and the Society for Horticultural Science and Nut Growers' Association meeting at the Exposition during that week, will be inducements that the members of the Maryland Association cannot afford to miss.

Prof. T. B. Symons, secretary of the society, is now arranging an attractive program for the day, which he hopes to issue together with the premium list to be offered for the annual exhibit in Baltimore, December 3d and 4th.

CLUB AND SOCIETY NOTES.

At a meeting of the Greenwich Gardeners' Society, Greenwich, Conn., held on July 17, officers were elected as follows: Pres., Robert Williamson; vice-pres., P. Flaherty; rec. sec'y., Thomas Young; fin. sec., John Harper; treas., A. Mead.

At the next meeting of the Florist Club of Philadelphia, August 6, the competition for the Craig prizes for specimen plants of *Nephrolepis Amphibolia* will be a centre of interest. A paper is promised by Mr. George Reddes on "Some observations on native plants."

The Rhode Island Horticultural Society spent a pleasant day at the State Experiment station, Kingston, on July 23. A clambake, speaking by President Howard Edwards, Dr. H. H. Hartwell, Prof. Adams and Dr. L. J. Cole, demonstrations of fruit culture and other branches of the work, were among the enjoyable features.

The New Hampshire Horticultural Society was royally entertained by George B. Leighton at Monadnock Farms, Dublin, on July 18. It was the annual summer outing of the society. Secretary Hall called the meeting to order at the close of the dinner and after a welcome by Mr. Leighton, Wilfrid Wheeler of Concord, Mass., spoke on growing of small fruits; T. F. Boorst reviewed the forestry situation, stating that in Massachusetts there are 18,000 acres of young trees under cultivation; E. D. Sanders stated that the gypsy and brown tail moths seemed to be under control in the State, and L. J. Fosdick spoke on cranberry culture. The winter meeting will be held in October.

The new giant-white perennial pea, *Lathyrus latifolius* White Pearl is said to be a great advance on the old variety in size of flower, purity and profuseness of bloom, and is strongly recommended by The Garden as a first-class subject for cutting and for garden decoration.

NEW ROSE-Mrs. Jardine

Will be distributed in March, 1908

* Florists coming to Philadelphia in August are cordially invited to visit our Nurseries, and see the habit and growth of this sterling novelty.

* Mrs. Jardine was raised by Messrs. Alexander Dickson & Sons of Newtownards, and is in the same class for winter forcing as their previous introductions—Liberty and Killarney.

ROBERT SCOTT & SON, Sharon Hill, Del. Co., Pa.

OBITUARY.

Henry P. Weber, vice-president of the H. Weber & Sons Company and in charge of the farm operations of the company, at Oakland, Md., was found, on the morning of July 20, lying unconscious across his rifle in the chicken coop with a bullet wound back of his temple. He died four hours later without regaining consciousness. He had purchased a rifle some years previously for the purpose of shooting minks and skunks which were destroying many of his chickens. It is thought that he had heard a disturbance in his chicken coop and had taken his rifle with him with the thought of possibly shooting the disturber and from the surroundings and the location and direction of the wound it is thought that he had stumbled and the rifle being thrown from his hands was accidentally discharged. There was nothing in the attendant circumstances to indicate suicide. Mr. Weber was 39 years of age and is survived by a wife, five children, his mother, five brothers and five sisters. He was a devoted husband, a loving father, a kind neighbor and a man of the highest integrity. His death caused widespread sorrow in the neighborhood where he lived.

Christoph Meier, father of Carl Meier, died at his son's home, Green Bay, Wis., July 18. The effects of dropsy and old age caused the demise. Mr. Meier was 84 years old.

A speaker before the Springfield Botanical Society recently in discussing the insect pests of New England trees, declared that good pine lumber had doubled in price in six years, and that pine shingles, once in common use, are now so high priced as to be practically out of the market. The substitutes which have taken their place are also much higher than formerly. White-wood, used largely for interior finish, is one-third higher than five years ago, while spruce lumber has doubled in price in ten years, a set of facts which show that the time has arrived for conserving our stores of wood, through forest reservations, better protection against fire, and more systematic methods of fighting insect pests. But for the coming of concrete and other non-combustible building materials which lessen to some extent the demands on our forests, the outlook for a supply of housebuilding materials at reasonable prices would be most disquieting.

A GERANIUM PEST.

All the geraniums planted out in the parks at Sandusky, O., and with some of the florists are being slowly eaten up by cutworms. I have not seen a perfect leaf of flower on the many thousands of plants used. It does not sound true, but it is a fact.

SCHILLER.

HARDY PERENNIALS

Yucca filamentosa. *Aconitum Napellus* and bicolor. *Helenium superbium* and *striatum*. *Rudbeckia*. *Heimerocallis*. German Iris, many colors. Hardy Phlox, 20 varieties. *Punkia subcordata*. Write for prices to

T. H. CHIVERS, - Amesbury, Mass.

JOHN E. HAINES

The ORIGINATOR of the three varieties:

Per 100 (100)
John E. Haines Carnation.....\$6.00 \$50.00
Imperial and Pink Imperial.....12.00 100.00

HEADQUARTERS AT

BETHLEHEM, PA.

Orders taken now for field-grown plants at same price as for rooted-cuttings.

FIELD CARNATIONS

Enchantress, White and Pink Lawson, Queen, Peary, Bountiful, Estelle, Cardinal, Harlowarden, \$6.00 per 100, \$50.00 per M; first size

Novelties: Rose Enchantress, White Perfection, Craig, Victory, Candace, Goddard, \$10 per M. Cash.

HARLOWARDEN GREENHOUSES, GREENPORT, N. Y.

CELERY PLANTS

100,000 WHITE PLUME

All Transplanted plants. Many rootlets. Unlike those grown in the ordinary way. None better.

500, \$1.50. 1000, \$2.50. 5000 or over \$2.00 per 1000.

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New and Rare Plants

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FINE TREES AND SHRUBBERY
FURNISHED AND PLANTED.

D. ROBINSON'S SONS

Revere Beach Parkway, Everett, Mass

You will find something worth reading on every page of HORTICULTURE.

Seed Trade

Crop prospects have greatly improved during the past two weeks particularly corn, and it looks as if the earliest varieties might mature for seed. As to late sorts such as Stowell's Evergreen, Late Mammoth, Old Colony, Country Gentleman, Hickox, and Egyptian, their chances of making any seed this year are very doubtful, still, if frost holds off well into October it will not be a hopeless case, but corn is certainly very late, at least a month, and it will be remarkable if it makes up lost time.

Pea growers are having their troubles, and it can be stated as a fact that the general crop will be short, fully as short as last season's. In fact it is said that deliveries will not average better than fifty per cent. Should this prove correct, there will be much complaining, especially from canners, who most persistently refuse to recognize the necessity for any shortage in seed crops. More will be said along this line in an early issue of Horticulture.

Notwithstanding the lateness of the sugar corn crop in general, green corn has been on the market for some time, much of it coming from the south, and mainly of the Adams varieties, but genuine sugar corn locally grown has been in evidence for about ten days and has brought as high as \$2.25 per 100 ears. It ought soon to be abundant and much lower in price.

Green peas have brought most excellent prices, large shipments from 90c. to \$1.15 per bushel.

Beans have also been selling at very good prices, but there is some prospect of the market being glutted with a consequent drop in prices. As a matter of fact most all green garden "sass" has sold at exceptionally good prices, and if crops have been somewhat disappointing in yield and a little later than usual truck farmers will no doubt make quite as much if not more money than they generally do from the same acreage and larger crops.

These are happy auguries for the seedsmen, as they mean a good active demand for seeds next winter and spring.

Vice-Consul Ernest Vollmer writing from Tsingtau says that a large American seed business could be worked up in this district. Owing to the system of fertilization, Chinese vegetables are very unhealthy and are not eaten by foreigners. The result is that every family has a vegetable garden. Small packages of seeds, the same size as in America, sell for 10 cents Mexican (5 cents gold). All of these goods come from Europe; but if the Americans would introduce their seeds, allowing the unsold packages to be returned at the end of the season, as is the practice in America, there is no reason why the trade could not be diverted. Natives would probably buy what seeds were left over at a reduced price, and thus do away with the expense of re-shipping to the United States. This business could be worked up all over the Orient, as the conditions are similar, and would seem to be worth seeking.

The special car from Boston on Saturday, July 20, carried a happy company of fifty to the sweet pea trial grounds of W. W. Rawson & Co., at Marblehead, Mass., and trains, automobiles, carriages, etc., swelled the number to over a hundred during the afternoon. Much interest was manifested in the ninety-six varieties displayed, which included fifty distinct novelties. A voting slip was given to each guest on arrival on which they were requested to register the 12 best varieties in their opinion. The result showed the favorites to be Apple Blossom, Frank Dolby, Florence Norton, George Hertel, Helen Pierce, Miss Wilmott, Mrs. Alfred Watkins, Nora Unwin, Queen Alexandra, Shasta, White Wonder, Zoe. Base ball was indulged in by some of the visitors, refreshments were served, and at six o'clock the special car for Boston started on its trip.

E. C. Dungan, manager of the Wm. Henry Maule establishment, leaves Aug. 3rd for a trip along the Canadian border via Cape Vincent. He will be accompanied by Mr. King of Mandeville & King, Rochester. We understand this is to be a fishing and pleasure trip but it will be well not to overlook its steady influence on the pea and bean market. These two hardheads are not easily stamped by the cry of "wolf, wolf," or fire alarms.

It is reported that the crop of Kentucky Blue Grass will be controlled this year, as it was last year, by a syndicate composed of a few Blue Grass cleaners.

As reported in these columns some weeks ago, C. B. Coe has returned to the employ of D. M. Ferry & Co., and is now on the road again.

A GOOD MOWER.

The clipper lawn mower, manufactured by the Clipper Lawn Mower Company, Dixon, Ill., continues to win its way to permanent popularity, judging from approving reports of parties who have purchased this type of mower on the strength of the advertisement in Horticulture and the strong recommendation given by Mr. Orpet in a communication in Horticulture last season as to the efficacy of the clipper in exterminating "crab grass" when used persistently. The hand machines and horse machines have both given good results.

Our note two weeks ago concerning the magnitude of the strawberry crops in New England is confirmed by later reports from many localities the crop being in some cases nearly double that of last year. The retarded spring possibly had something to do with this gratifying result. As a rule the growers express satisfaction with the returns. Occasionally there is a complaint from those who had been anticipating big prices because the season was late. Many Portuguese and Italian farmers are going into strawberry raising.

Headquarters for PLANT STAKES CANE STAKES

Long selected stock, thin and wiry,
very strong.

	per 100	per 1000	per 5000
Southern... 8 to 9 ft.	75c.	\$6.00	\$25.00
Japanese... 6 to 7 ft.	75c.	\$5.50	25.00

STEEL STAKES

No. 10. Steel Wire Galvanized

	per 100	per 1000	per 1000
2 ft. .. \$0.45	\$4.08	4 1/2 ft. .. \$1.00	\$9.20
2 1/2 " .. .55	5.11	5 " .. .12	10.23
3 " .. .65	6.15	6 " .. .13	12.25
3 1/2 " .. .75	7.18	6 1/2 " .. .14	13.28
4 " .. .85	8.16		

No. 8 Steel Wire Galvanized

For Staking American Beauty and other
strong and tall growing Roses.

	per 100	per 1000	per 100	per 1000
2 ft. .. \$0.55	\$5.25	4 ft. .. \$1.10	\$10.00	
2 1/2 " .. .70	6.50	4 1/2 " .. .125	11.50	
3 " .. .80	7.50	5 " .. .140	13.00	
3 1/2 " .. .95	9.00	6 " .. .150	15.50	

MICHELL'S RELIABLE HOSE

Made expressly for hard usage.

Ask most any florist about it.

3 Ply per foot 12c. 4 Ply per foot 14 1/2 c.

Our Advance Price List of Bulbs is Ready.

HENRY F. MICHELL CO.

1018 Market Street

PHILADELPHIA - PA.

MASSACHUSETTS AGRICULTURAL COLLEGE.

Summer School of Agriculture.

There will be a summer school at Massachusetts Agricultural College in 1908. This will follow somewhat the same lines as the school which has proved so popular and successful this year. This announcement came officially from the Dean, Professor F. A. Waugh on Thursday. It was stated further that although the courses would be somewhat changed in 1908 the main idea of this year's school would be adhered to and improved as far as possible. Probably one or two strictly technical courses in certain lines of horticulture will be offered and if possible there will be additional professional courses for teachers. The expenses of the course in 1908 will be considerably greater than they have been this year, but will not exceed a total of \$5-\$6 a week. It is expected furthermore that some definite limitations will be put on the number of courses which students may elect and also upon the number of students admitted to each class. If this year's experience is an indication of what may be expected next year it will be necessary also to put some limitation upon the total number admitted to the school.

RUSTIC WORK



Settees -	\$7.00
Window	} 1.25
Boxes	
Arm Chairs	3.25
Tubs -	1.25
Vases with	} 2.75
Stands	

W. Elliott & Sons
201 Fulton St., N. Y.

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Fresh Crop

Now Ready

Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNCIEBEL. None genuine unless sold by me.

AUGUSTUS ZIRNCIEBEL, Needham, Mass.

GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.

GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

Christmas Flowering Sweet Pea Seed

DIRECT FROM ORIGINATOR.

Christmas Pink, Florence Denzer, white 1-4 lb 75c; 1 lb. \$2.00.

Mrs. E. Wild, new carmine red, 2 oz. 75c. 1-4 lb. \$1.50.

These popular Florists' Sweet Peas have been grown by

OVER 3000 FLORIST

all over the world to the best satisfaction of the most critical growers, and

HAVE NO EQUAL.

Also 10 New Varieties offered for the first time, Salmon, Pink, Blue Purple, Yellow and Variegated in separate colors.

Ask for Descriptive Price List. These new varieties will be ready in September. Sweet pea Directions with every order.

ANT. G. ZVOLANEK
Bound Brook, NEW JERSEY

ALL GIANTS are used in mixing our **PANSY SEED**

"BODDINGTON'S CHALLENGE" mixture contains all the finest *Giant* strains—of the leading Pansy Specialists in the world—the *Giant* self colors, the *Giant* striped and margined, and the *Giant* blotched—all carefully mixed in proportion—the *finest* that money can buy—the *finest your* money can buy. A florist who has grown it, said "Why don't you call it *Defiance*!"

Trade pkt. 75c, 1-4 oz. \$1.50, 1-2 oz. \$2.75, oz. \$5.00. New crop ready July.

... Order Now ...

A. T. BODDINGTON, 342 W. 14th St., N.Y. City

PANSY SEED In separate colors and the finest mixture, embracing every conceivable shade and marking and largest flowers. Crop of 1907.

Get descriptive Price-List

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Burpee's Seeds
PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

CABBAGE PLANTS

Early and Late Flat Dutch, Succession and Savoy \$1.00 per 1000, 10,000 and over 80c. per 1000.
CELERY, Golden Self Blanching, Giant Pascal, White Plume, Winter Queen, Golden Heart, \$1.00 per 1000, 10,000 and over 80c. per 1000.
Borecole, Brussels Sprouts, Leek, \$1.00 per 1000.
Lettuce, Grand Rapid, Boston Market, Dehance, \$1.00 per 1000. Moss Curled Parsley \$1.00 per 1000.
My Plants are Fine. Cash with order, please.
SAMUEL W. SHANKLIN, WHITE MARSH, MD.

THE PANSY FLORISTS WANT....

Johnson's Kingly Prize-Winner Strain

WHY? Because it is unequalled for size, heavy texture, rich colors and markings, and produced by the World's Leading Specialists.

We offer New Crop Seed as follows: Per 1000 seeds 30c; 2000 seeds 50c; 5000 seeds \$1.00; per ounce \$5.00.

Write for our complete Pansy List.

JOHNSON SEED CO.,
217 Market St., Philadelphia.

Vick's Superb Pansy Seed

All the best varieties in separate colors
VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:
1-8 oz. 85c. 1-4 oz. \$1.60 Ounce \$6.00

JAMES VICK'S SONS, Rochester, N. Y.

High Grade Seeds for
Market Gardener,
Florist and Farmer
Catalogues Free

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47-54 NO. MARKET ST., BOSTON, MASS

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AND FREESIA BULBS
PURITY FREESIA BULBS

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The Largest Seed Growers in the United States

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READY NOW

BEGONIA
Gloire de Lorraine

Plants from 2½ in. pots

\$15 00 per 100

\$140.00 per 1000

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6 and 7 So. Market St., BOSTON.

ESTABLISHED 1802

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Trade Bulb List now ready. PER 1000 SEEDS
Asparagus plumosus nanus seeds..... \$2.25
Asparagus plumosus robustus seeds.... 2.50
New crop Giant Cyclamen seed.

Cold storage Lily of the Valley pips, best possible grade, in cases of 1,000 and 3,000 pips each, at \$12.00 per 1,000.

BERMUDA EASTER LILIES, ROMAN HYACINTHS AND ALL HOLLAND AND OTHER BULBS

SEND FOR PRICES

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33 Barclay St., through to 38 Park Place
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Everything of the Highest Grade

Grey's Highest Grade of Tested Seeds

Send for Catalogue

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32 & 33 So. Market St., BOSTON

BRIDGEMAN'S SEED WAREHOUSE

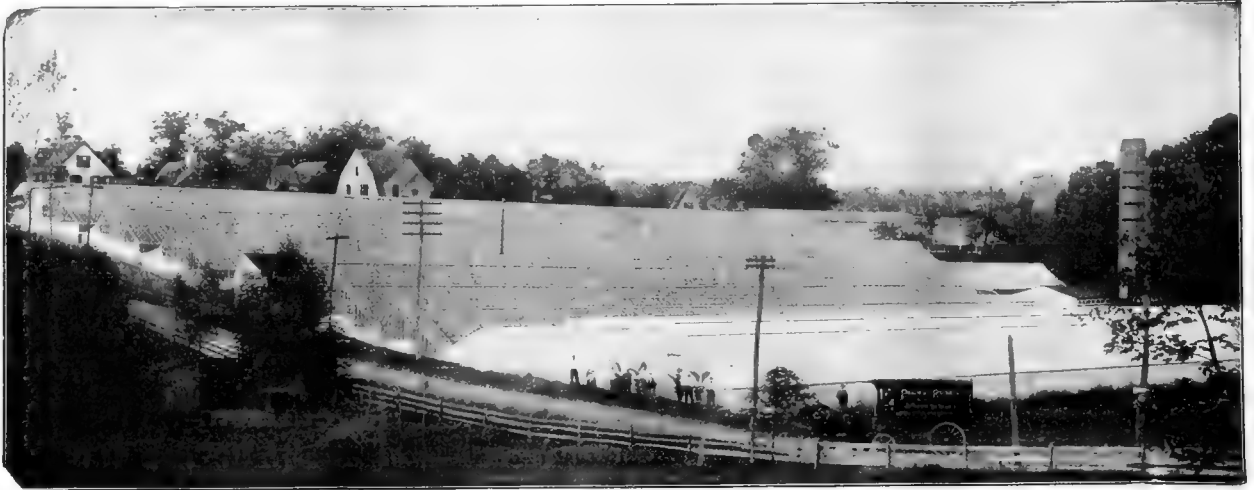
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CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.



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Come to Wyncote and see our KENTIAS

25 Minutes Ride, Reading Railroad

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BAMBOO CANES

TOUGH AND STRONG

6ft long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more
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times better.

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and 235 Broadway, Room 1
NEW YORK CITY**

Just Arrived in Fine Condition

ORCHIDS

In Variety

Cattleyas, Laelias, Oncidiums, Odontoglossum, Epidendrum, etc.

WRITE FOR PRICES.

JOSEPH A. MANDA, Orchid Expert, West Orange, N. J.

JUST ARRIVED JUST ARRIVED

Cattleyas Percivalliana, Sanderæ and
Speciosissima, Oncidium Kramerianum and Gaskelliana.

Write for prices or telephone to

**ORDONEZ BROS.
MADISON, N. J.**

P. O. Box 105.

Phone 143 Madison.

Just arrived in superb condition:

Cattleya Percivalliana, Cattleya labiata, Cattleya Schroederæ, Oncidium varicosum Rogersii, O. Crispum, O. Marshallianum, O. luridum, Miltonia Cuneata, M. Candida, M. Clowesii, Laelia Crispa, L. Dayana, L. Praestans, etc. Write for prices.

LAGER & HURRELL, Summit, N. J.

JAPANESE
THE YOKOHAMA NURSERY CO.
31 BARCLAY STR. NEW YORK.
LILIES
PLANTS
BAMBOO STAKES

LET US QUOTE

on your wants in Callas, Paper White Grand, Narcissi, 13 cm. up. All Dutch Bulbs, Wood Moss.

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CINCINNATI, OHIO**

150,000 CELERY PLANTS

All White Plume, good strong transplanted plants in flats or otherwise, \$1.00 per 1000. Asparagus Sprigged from 3 1/2 in. pots, \$2.00 per 100.

MOREL BROS.

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SMILAX PLANTS

Fine strong stock

Out of 2 in. pots. \$2 per 100, \$18 per 1000

J. B. HEISS

112 S. MAIN STREET,

DAYTON OHIO

... ORCHIDS ...

Just to hand, C. Trianae, C. labiata, C. Mossiae, C. Intermedia, C. Schroederæ, C. Speciosissima, C. Citrina, C. Gaskelliana, Laelia Anceps, L. Albida, L. majalis, L. Autumnalis, Epidendrum Vittelinum majus, E. Cooperianum, Oncidium Crispum, O. Varicosum, O. Cavendishianum, O. Luridum, Odontoglossum, To arrive in a short time, C. Dowiana, C. Aurea, C. Warnerii, Miltonia Vexillaria.

CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS

Imported, semi-established, established and seedlings.

Catalogue sent on application

J. ROEHRS CO., RUTHERFORD, N. J.

CANNAS

We have a few good kinds left

RED, YELLOW and PINK

Also 2 1/2 in. ROSES. Get our List.

The Conard & Jones Co., West Grove, Pa.

PREPARE FOR CHRISTMAS

Novelties always sell during the holidays. If you have not already grown them, try some Pink or Rose SPECIOSUMS. If potted in July will flower for Thanksgiving and Christmas. Always useful either for cut flowers or plants. Ask the leading florists in Pittsburgh, Cleveland, Detroit, Buffalo, or around New York City. Order today. Will ship any time. Cold storage Lilium longiflorums take about two months to bloom from time of potting; speciosums from five to six months, so that longiflorums wanted for Thanksgiving and Christmas should be planted about Oct. 1, and speciosums in July.

ALL CASES ARE REPACKED BEFORE SHIPMENT

Lilium Speciosum Rubrum	Per 100	Per 1000	Lilium Speciosum Melpomene	Per 100	Per 1000
8 to 9 inch bulbs, 200 in case	8.00	75.00	8 to 9 inch bulbs, 200 in case	9.00	80.00
9 to 11 inch bulbs, 150 in case	12.50	110.00	9 to 11 inch bulbs, 150 in case	12.00	115.00

Lilium Longiflorum Multiflorum 9 to 10 inch bulbs, 200 in case \$11.00 \$100.00

Full Cases Sold at 1000 Rate

ARTHUR T. BODDINGTON, 342 West 14th St., New York City

400,000 More Calla Ethiopica Bulbs



Over 472,000 shipped to old and new customers. All orders from now on will be shipped next day order is received. A good many florists are ordering Bulbs to plant after chrysanthemums are pulled out. I prepay freight when cash comes with order. If wanted by express I prepay 2½c. per lb., you pay balance, 25 at 100 rates, 250 at 1000 rates.

Calla Ethiopica, 10 inches circumference	100	1000
" " 9 " " "	\$10.00	\$90.00
" " 8 " " "	9.00	80.00
" " 7 " " "	8.00	70.00
" " 6 " " "	7.00	60.00
" " " " "	5.50	45.00
" " " " "	4.50	35.00
" " " " "	3.50	25.00
" " " " "	2.25	15.00

The above Bulbs will all bloom 1 year.

A. MITTING, 17-23 Kennan Street, SANTA CRUZ, CAL.

FERNS: Boston, Piersonii, Scotti, Anna Foster, 4 in. pots, \$2.00 per doz.

ASPARAGUS Plumosus and Sprengeri, 4½ in. pots, \$2.00 per doz. Sprengeri, 3 in. pots, \$5.00 per 100; 2 in. pots, \$2.00 per 100; seedlings, 50 cts. per 100.

STEVIA dwarf and tall, 2½ in. pots, \$3.00 per 100.

CHRYSANTHEMUMS, in fine condition for benching. 2½ in. pots, \$2.00 per 100. Ivory, Glory of Pacific, Minnie Bailey, Mrs. Jerome Jones, Chadwick, Maud Dean, Balfour, Mrs. Weeks.

CROTONS, 4 in. pots, \$2.00 per doz.

C. EISELE,  11th and Roy Streets, PHILADELPHIA, PA.

Do Not Miss Seeing Our Exhibition of

GLADIOLUS BLOOMS

CONVENTION OF S. A. F.

At Philadelphia, August 20-22.

"AMERICA" WILL BE THERE IN ALL ITS GLORY.

John Lewis Childs, Floral Park, N. Y.

DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; prompt delivery.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
ATCO, N.J.

GODFREY ASCHMANN

Importer and Wholesale Grower and Shipper

of Araucaria Excelsa, Compacta, Robusta and Glauca; Kentia Forsteriana and Belmoreana Azalea, Indica, etc. Cultivator of Boston, Scottii, Barrowsii, Elegantisima and Whitmanii Ferns. Ferns for dishes, Cocos, etc. Write for prices.

1012 Ontario St., Philadelphia

Gardenia Plants

Fine Stocky Plants
Out of 3 inch Pots

\$2.50 per doz.; \$15.00 per 100;
\$25.00 per 200; \$120 per 1000.

STUMPP & WALTER CO.

50 Barclay St., New York.

CELERY PLANTS

We have millions of good celery plants in the following varieties: Boston Market, Dwarf Golden Heart, Giant Pascal, Golden Self Blanching, White Plume and White Solid, also Celeriac, Giant Prague and Moss Curled Parsley, as well as a good stock of Cabbage Plants. \$1.00 per 1000; 10,000 and over 85 cts. per 1000, delivery to the Ad. & U. S. Express Co., 25 cts per 100 postpaid.

R. VINCENT, Jr. & SONS CO.
WHITE MARSH, MD.

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Importers and Exporters
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Grower of PALMS, FERNS and Other Decorative Stock

NEPHROLEPIS SCOTTII All the Year Round

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Give Us a Trial on Azaleas.

250,000 fine shaped plants grown exclusively for us by Eugene Verveat De Vos, Swynearde near Ghent, Belgium, in his own gardens. Special prices upon request.

JOHN SCHEEPERS & CO.,
4 & 6 Old Slip, NEW YORK.

Prices Quoted in these Columns are for Dealers Only. When Writing to Advertisers Please Mention HORTICULTURE.

During Recess

*"Hang, crowd, and all such, at
And there is the money."*

ST. LOUIS FLORISTS' CLUB FOUR-TEENTH ANNUAL OUTING.

One of the largest gatherings of florists and their families and friends at any one time was on last Thursday, July 25, in Romona Park, on the occasion of the yearly picnic given by the St. Louis Florists' Club. No actual count was taken, but the trustees estimated that the crowd numbered nearly four hundred. The hardest workers to make it pleasant for all were W. E. Smith, Carl Beyer, Frank Fillmore and Charles Schoeule.

All the wholesale houses closed up at 12 o'clock and the bosses and employees came out in full force. The day was very hot and shady places were at a premium. During the morning hours the crowd amused themselves on the lake boating and fishing, others took to dancing. Our suburban members came out to a man. Kirkwood, Belleville and Edwardsville were well represented. Messrs. Fillmore, Schoeule and Beneke acted as a reception committee at the gate, while the trustees took charge of the crowd at the grounds. One of the features was the fine band of music.

Trustee Smith started the games of which there were fourteen. The 100 yard dash for all was won by August Hartman; prize, a silk umbrella. The fat-man's race was called off as there were no florists present whose weight was over 200 lbs.

Other events were as follows:

50-yard race, girls under 16, prize a fan; winner Alice Music. 100-yard race, boys under 16, prize ball and bat; winner John Bentzen. Potato race, prize box of candy; winners Joe Kerr and Alice Music. 50-yard egg and spoon race, prize silver meat fork; Mrs. W. J. Pilcher. Hop, skip and jump, gold scarf pin; Fred Albers, 32 ft. 2 in. 50-yard race, boys under 12, catcher's glove; Edwin Lammers. Ball throwing for ladies, gold thimble, Miss Mamie Tockenbrock. Flower-pot-breaking contest, silver salt and pepper set; Mrs. Theo. Klockenkemper. Base ball game between employees of wholesale houses and employees of C. Young & Sons, five innings; score 11 to 5 in favor of wholesalers. The same teams will play a full nine inning game at a later date. The wholesalers contemplate challenging the Chicago wholesale team. Tug-of-war between St. Louis and Kirkwood was won by Kirkwood amid great excitement, and the box of cigars offered as a prize was duly gathered in.

A bountiful supper was served and the evening was devoted to dancing and singing.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Annual Picnic.

The results of games unfinished at our time for going to press last week were as follows:

Tug of war between the commercial and private gardeners, won by the private men under leadership of James Wheeler. Ladies' potato race, won by Catherine Lally and Jean Westwood. Throwing base ball: Carroll Davis, 266 ft., 11 in.; A. E. Walsh, 258 ft., 3 in. One hundred yards handicap, Carroll Davis, J. S. Brown, A. E. Walsh. Ladies' tennis ball throw: Harriet Coles, Louise Eisenhart, Florence Palmer. Throwing 16 lb. shot: W. J. Crassie, 30 ft., 1 in.; John Reed, 29 ft., 5 in. Long jump: G. H. Grey, 16 ft., 5 in.; W. J. Collins, 16 ft., 2 in. Half mile race: J. S. Brown; John Reed. Three-legged race: W. J. Collins and John Reed; J. S. Brown and Fred Coles. Boys' sack race: Theo. Westwood; John Sisson. Men's sack race: W. J. Collins; W. S. Grassie. High jump: W. S. Grassie, 5 ft., 1 in.; Frank Edgar. Fat men's race: James Wheeler; Aug. Zirngiebel; J. L. Miller. 240-yard handicap: G. H. Grey; E. G. Walsh; J. S. Brown. Potato race, girls under 15: Helen Vears; Lillian Vears. Potato race, boys: Robert Smith, Chas. Clarke; W. McGorum. Quoits: W. Robb; John McKenzie; F. Coles. Boys' base ball: Thos. Iliffe team beat Andrew's team.



Married Ladies' Race.



Potato Race.



Girls' Race.



Throwing Tennis Ball.



Fat Men's Race.



Three-legged Race.



High Jump.



Base Ball.



Tug-of-war.

GAMES OF THE GARDENERS' AND FLORISTS' CLUB OF BOSTON.

News Notes

A new retail store has been opened in Detroit, Mich. by Frank De Beul.

Joseph Krug has opened a retail flower department in the lobby of the Commercial building, Alton, Ill.

The Dillon greenhouses at Locksburg, Pa., are reported to have been seriously damaged by the recent cyclone, and hundreds of fruit trees were destroyed.

Mr. Monahan who has been doing business in Blackinton, Mass., under the name of the Berkshire Horticultural Company, has been missing since the first of July.

Krueger Bros., Inc., Toledo, O., have recently purchased an 80-acre farm in Wood County, and will begin improvements thereon that will meet the demands of their rapidly increasing business.

The exports from Rotterdam to the United States during the year 1906, as reported by Consul-General Listoe include bulbs and flowers to the amount of \$475,209, plants \$305,976, and seeds \$151,907.

Etta Kelley and Irene S. Scott, composing the Scott Floral Company, caused the arrest of Samuel A. DeBolt, a former employee, several weeks ago, and had him arraigned before a justice of the peace charged with stealing \$11.50, which he had collected from patrons of the floral company. DeBolt was found not guilty, and today he began suit in the district court against the floral company for \$20,000, to which extent he claims his good name and reputation have, and will, be injured by his unjust arrest. He alleges that his arrest was the result of a conspiracy.—Denver Post.

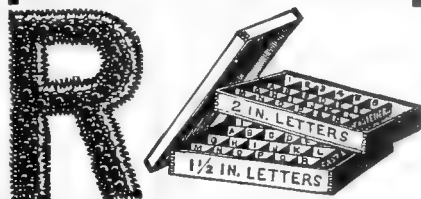
A new lupine has been introduced in England under the name of Opal. It is described as bearing flowers of a charming shade of white and mauve, the plants being of enormous size.

KORAL SCRIPT LETTERS AND EMBLEMS
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For sale by all first class supply houses. Made by
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ALBANY, N. Y.

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Flowers or Design Work
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Cut Flowers of BEST QUALITY in season
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Write, Telegraph or Telephone.
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This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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66 Pearl Street, BOSTON, MASS.

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**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada

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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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Special Attention to Theatre and Steamer Orders
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Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS

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42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

Send flower orders for delivery in
BOSTON
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NEW ENGLAND POINTS
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124 Tremont St., Boston

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We shall make the most remarkable Exhibition of Sterling Novelties in Florists' Supplies ever seen on this continent.

It will be one of the big sensations of the S. A. F. Convention.

These goods have all been personally selected by Mr. H. Bayersdorfer who has spent many weeks in the largest and most progressive **European Sources of Supply**. A life time devoted to this work has equipped Mr. Bayersdorfer with a discernment of the distinct needs of the American market possessed by no other buyer. Send for Catalogue.

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From 40 to 60 Growers

We can care for your cutflower wants to advantage.

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In writing advertisers mention Horticulture

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	July 29		July 29		July 29		July 25	
ROSES								
Am. Beauty, Fan. & Sp.	20.00	to 25.00	25.00	to 33.00	20.00	to 35.00	15.00	to 25.00
“ Extra.....	15.00	to 18.00	15.00	to 20.00	12.50	to 15.00	10.00	to 12.00
“ No. 1.....	10.00	to 12.00	10.00	to 15.00	8.00	to 12.00	6.00	to 8.00
“ Lower grades.....	5.00	to 8.00	3.00	to 5.00	2.00	to 6.00	.50	to 3.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	4.00	to 6.00	5.00	to 8.00	3.00	to 4.00
“ “ “ Extra.....	4.00	to 5.00	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00
“ “ “ No. 1 & lw. gr.	2.00	to 3.00	.....	to	1.00	to 2.00	.50	to 1.00
Liberty, Richmond, Fan. & Sp.	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	3.00	to 4.00
“ “ “ Lower grades.....	3.00	to 5.00	2.00	to 4.00	2.00	to 4.00	.50	to 2.00
Chatenay, Morgan, Fan. & Sp.	6.00	to 8.00	4.00	to 6.00	5.00	to 6.00	2.00	to 3.00
“ “ “ Lower grades.....	3.00	to 5.00	2.00	to 4.00	2.00	to 4.00	.50	to 1.00
Kaiserin, Carnot, Fan. & Sp.	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	3.00	to 5.00
“ “ “ Lower grades.....	3.00	to 5.00	2.00	to 4.00	2.00	to 5.00	1.00	to 2.00
Killarney, Wellesley, Fan. & Sp.	6.00	to 8.00	4.00	to 6.00	5.00	to 6.00	3.00	to 4.00
“ “ “ Lower grades.....	3.00	to 5.00	2.00	to 4.00	2.00	to 4.00	.50	to 2.00
CARNATIONS								
Fancy and Novelties.....	1.50	to 2.00	1.00	to 2.00	2.00	to 3.00	1.00	to 1.50
Ordinary.....	.75	to 1.00	.75	to 1.00	1.00	to 1.50	.50	to .75
MISCELLANEOUS								
Sweet Peas.....	.25	to .50	.50	to .75	.25	to .50	.15	to .25
Cattleyas.....	35.00	to 60.00	35.00	to 60.00	.....	to 60.00	35.00	to 60.00
Lilies.....	10.00	to 12.00	10.00	to 12.00	8.00	to 12.50	4.00	to 8.00
Lily of the Valley.....	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00	1.00	to 3.00
Gardenias.....	.....	to .....	.....	to	8.00	to 10.00	8.00	to 10.00
Mignonette.....	1.00	to 2.00	1.00	to 2.00	.50	to 1.00	.50	to 1.00
Adiantum.....	.75	to 1.00	.75	to 1.00	1.00	to 1.50	.50	to 1.00
Smilax.....	10.00	to 12.00	12.00	to 15.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	to	35.00	to 50.00	to 50.00
“ “ & Spren. (100 bchs.)	35.00	to 50.00	to	to 50.00	2 5.00	to 50.00

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Grow and Ship the Finest

AMERICAN BEAUTIES

in the World.

35-37 Randolph St., - CHICAGO, ILL.

The Florists' Supply House of America

Can fill hurry orders. Telephone or Telegraph

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INVITATION

Florists visiting Philadelphia are cordially invited to call at the

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and inspect one of the best collections of trees and shrubs in the east. Twenty trains daily each way. One hour from Philadelphia. Carriage will meet trains on phone notice.

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Morrisville Nursery

MORRISVILLE, BUCKS COUNTY, PENNA.

WE extend a cordial invitation to all out of town florists and others in the trade visiting Philadelphia and will be pleased to have them make our central location their headquarters during their stay.

BERGER BROS.

Wholesale Florists

1305 Filbert St., Philadelphia

FLOWER MARKET REPORTS

BOSTON Quiet still prevails in the flower trade but it is expected that in a few days more the summer resort demand will open up and help conditions materially. Roses are poor with the exception of Kaiserin and Carnot and a few Beauties. All these sell fairly well during the period of recuperation of the standard winter varieties. So far, lily of the valley is selling below the expected demand and price. Asters improve daily and bring a good price in the absence of carnations but a few days more will bring in a heavy supply and values will fall far below the fancy prices possible at the present moment. Lilies, peas, etc., are in plentiful supply.

The supply is shortened
BUFFALO all along the line and business improved slightly. Carnations are small, roses not plentiful and with lilies and peas have sold well. Beauties are not at the best, although they have sold out fairly well. Asters have made their appearance but with short stems as yet. Business is as good as can be expected for this time of year.

The weather continues warm, stock poor. There is little demand for cut stuff except some funeral work which comes in spurts. Some fairly good Beauties are still to be had. Sweet pea season is about over. Asters are rapidly coming in to take the place of carnations. The excellent growing weather has brought the crop on earlier, the quality of which is good. Tea roses are at a low ebb, practically nothing being cut in this vicinity. Good gladioli are arriving and sell about as well as anything. The various kinds of lilies are to be had in abundance. The green market is in good condition as everything one wants can be had in any quantity.

NEW YORK

Present flower demands are easily satisfied. A fairly good supply of Beauties is coming into the market and these with a liberal quantity of Killarneys, Victorias and Testouts seem all sufficient for the business doing. Richmonds, Brides and Bridesmaids are most of them from young stock and insignificant in size and value. A few good carnations are to be had and also quite a number of inferior grade. Lilies are in good supply.

PHILADELPHIA

Trade conditions here indicate a slight increase in activity. The first flush of outdoor flowers having passed throws a certain amount of inquiry towards commercial centers. The decrease in receipts consequent on re-planting has also helped to steady the market and give it a little tone. The volume of business has not risen above normal summer level but it is handled at a profit which is all that can be expected at this season, and better than usually comes our way. There is no such thing as crop news at present the period between the old and new being almost at low tide. Asters and gladioli are fine and buyers appreciate them.

TWIN CITIES

Trade is very quiet. Roses and carnations and a few summer lilies are about all the florist has to offer. There are, of course, a great many sweet peas, but the demand for them is small. Roses from the new plants have not put in an appearance as yet, but in a few weeks we will, no doubt, have a variety. A new store is to be opened in St. Paul this coming month by parties who are very strong financially, and which may cut into the trade to some extent.

Reports from Detroit are that supply is low and none too good. Asters are beginning to come in and so are gladioli. Many asters have fallen vic-

tims to the wireworm. Cleaning up of stores is quite general.

PHILADELPHIA NOTES.

Mrs. Samuel S. Pennock and family accompanied by a number of relatives and friends sailed on the "Haverford" last week for Europe. Samuel S. Pennock will sail to join them in Wales immediately after the convention. Hay fever time is a little late this year.

They tell us it is a much greater crime to put the dash in h—ll than to say it outright. That seems to be the idea of some of our bright business men of Philadelphia judging by this card over their desks:

Early to bed and early to rise,
Work like hell and advertise!

That's the kind of sentiment that would have pleased our old friend of happy memory, Benjamin Franklin. And the business Quakers of today, while they may be sane and circumspect, will be found in the fore front with their sleeves rolled up and enthusiastic in

"Pushing things to the end."

Rupert Kienle sails on the "Faderland," August 3rd, to be gone about eight weeks. He expects to meet in his travels his neighbor Edward Reiger who sailed some two weeks ago.

Fred Michell, Jr., has just returned from his annual summer sojourn on the Jersey coast.

Robert F. Tesson of St. Louis visited us on the 31st ult. the occasion being his brother's marriage to a Philadelphia lady at which he had to officiate as best man. We understand Mr. Tesson has recently sold one half of his 100 acres at Clayton, Mo., for a quarter of a million and has invested largely in Texas real estate.

INCORPORATED.

Krueger Bros., Toledo, O., capital stock, \$50,000; incorporators, Henry, Otto, William, Agnes and Julia Krueger.

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SEE US at Horticultural Hall or at Our New Building. Greatest Line of

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JOHN YOUNG**WHOLESALE FLORIST**Finest American Beauties and
Carnations**51 West 28 St. - NEW YORK****FORD BROTHERS**

48 West 28th Street, NEW YORK

FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

Telephone, 3870 or 3871 Madison Square

Charles Millang

50 West 29th St., New York City

Cut Flowers on CommissionA Reliable Place to Consign to or order from
Telephone: 3860-3871 Madison Square**The Reliable Commission House**Richmond Roses and Rich Flowers
of all varieties**JOS. S. FENRICH**

110 W. 28th Street, New York

Tel. 324-325 Madison Square

Established
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SHIP TO
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All Choice Cut Flowers in Season

55 West 28th St., New York

Telephone 3924 Madison Square.

JOHN I. RAYNOR**Wholesale Commission Florist** SELLING AGENT FOR
LARGEST GROWERSA full line of Choice Cut Flower stock for all purposes. Comprises every variety
grown for New York market, at current prices

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CHOICE CUT FLOWERS

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ORCHIDS A SPECIALTY**THE HIGHEST
GRADE OF VALLEY ALWAYS
ON HAND

CARNEDIAS, DAISIES, ROSES AND CARNATIONS

JAMES McMANUS, Telephone
42 W. 28th St., New York**H. E. FROMENT**Successor to
Wm. Ghormley

Wholesale Commission Florist

CHOICE CUT FLOWERS

57 West 28th St.

New York.

Special Attention to Shipping Orders

Telephones: 2200, 2201, Madison Square

Write for Current Prices

WHOLESALE
COMMISSION
FLORIST

OPEN 6 A.M. DAILY

J. K. ALLEN106 W. 28 ST.
NEW YORKTelephone 167
Madison Sq.

Ready to talk with growers about consignments for coming season

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending July 27 1907	First Half of Week beginning July 29 1907		Last Half of Week ending July 27 1907	First Half of Week beginning July 29 1907
Roses			Carnations, Fancy and Novelties..	2.00 to 3.00	2.00 to 3.00
Am. Beauty, fan and sp.	10.00 to 25.00	10.00 to 25.00	Ordinary	1.00 to 2.50	1.00 to 1.50
extra	6.00 to 8.00	6.00 to 8.00	Sweet Peas (100 bunches)	1.00 to 1.50	1.00 to 1.50
" No. 1	4.00 to 6.00	4.00 to 6.00	Cattleyas	50.00 to 60.00	50.00 to 60.00
Lower grades	1.00 to 3.00	1.00 to 3.00	Lilies	5.00 to 8.00	5.00 to 8.00
Bride, 'Maid, Golden Gate, fan & sp	3.00 to 5.00	3.00 to 5.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
" " lwr. grds. ....	.50 to 1.00	.50 to 1.00	Gardenias	10.00 to 12.00	10.00 to 12.00
Liberty, Richmond, fancy & special	3.00 to 5.00	3.00 to 5.00	Rignonette .....	.50 to .50	.50 to .50
" lower grades ..	.50 to 2.00	.50 to 2.00	Adiantum .....	.25 to .50	.25 to .50
Chatenay, Morgan, fancy and spec.	4.00 to 6.00	4.00 to 6.00	Croweanum	1.00 to 1.50	1.00 to 1.50
" lower grades ..	.50 to 2.00	.50 to 2.00	Smilax	8.00 to 12.00	8.00 to 12.00
Killarney, Wellesley, fan. and spec.	4.00 to 6.00	4.00 to 6.00	Asparagus Plumosus, strings	20.00 to 35.00	20.00 to 35.00
" lower grades ..	.50 to 2.00	.50 to 2.00	" & Sprea. (100 bchs.)	10.00 to 20.00	10.00 to 20.00
Gladioli .....	.50 to 6.00	.50 to 6.00			

ORCHIDS AT ALL SEASONS**WM. STUART ALLEN CO.**

Commission Merchants in Cut Flowers

53 WEST 28TH STREET, NEW YORK

Telephone 356 Madison Square

Edward C. Horan**Wholesale Florist**

55 WEST 28th ST.

Tel. 1462 Madison Square New York

TRAENDLY & SCHENCK
WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on fall orders

Tel. 798-799 Madison Sq.

44 West 28th Street, New York City

Alexander J. Guttman**THE WHOLESALE FLORIST OF NEW YORK**

43 WEST 28th STREET

PHONES. 1664--1665 MADISON SQUARE

ENOUGH SAID**In writing to Advertisers kindly mention Horticulture**



HARDY FANCY CUT FERNS, Extra fine, \$1 per 1000
BRONZE GALAX, \$1.25 per 1000. **SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25**
Hammond's Old English Liquid Putty, \$1.25 per Gal. **Hammond's Greenhouse White Paint, \$1.50 per Gal.**
DISCOUNT ON LARGE LOTS
 Give us a trial order on ferns; we are sure we can please you. Headquarters for Florist Supplies and wire work.
 Write for price list on cut flowers and supplies.
MICHIGAN CUT FLOWER EXCHANGE, INC., Wholesale Commission Florists, **38-40 Broadway, Detroit, Mich.**
TELEPHONE CONNECTIONS.

FRANK S. HICKS & CO.

Wholesale Florists.

Open Now for Consignments of Cut Flowers.
152 West 28th Street, - New York City.
 Tel. 2620 Mad. Sq.

FRANK MILLANG

Wholesale Florist

Telegraphic Orders Filled and Delivered.
55-57 West 26th St., New York City.

GLADIOLI

Cut spikes in any quantity from
 Selected White and Light Shades;
 Selected Mixed Colors and Named
 Varieties of Exceptional Beauty.

Write for Prices

ARTHUR COWEE

Gladiolus Specialist

Meadowvale Farm, BERLIN, N. Y.

BUSINESS CHANGES.

Henderson & Kalb succeed F. Shaffer at Pana, Ill.

Steward McKendry has purchased the St. John greenhouses at Darien, Conn.

Joseph Krug has started a retail stand in the Commercial Building, Alton, Ill.

Davenport & Son succeed H. A. Jahn in the retail store business at New Bedford, Mass.

Krumm Bros., St. Joseph, Mo., have sold their business to Misses Maguire and Haefl.

C. M. Hobbs & Sons succeed Albertson & Hobbs in the nursery business at Bridgeport, Ind.

William Struve has purchased the business of the Perth Amboy Co., Perth Amboy, N. J., and will conduct it hereafter under the name of Wm. Struve & Sons. The property consists of thirteen lots and four modern greenhouses.

Hughes, Florist, Chicago, sends us a pictorial post card, showing his private deer park in connection with his retail store. Hughes is a clever advertiser.

Best Flowers

in the **Boston Market**

N. F. MCCARTHY & CO.

84 HAWLEY STREET
BOSTON, MASS.

SEND FOR PRICES

HENRY M. ROBINSON & CO.

WHOLESALE FLORISTS

FRESH CUT FLOWERS, CUT EVERGREEN, AND FLORISTS' SUPPLIES.

15 Province St. & 9 Chapman Pl., Boston, Mass.

WHOLESALE FLOWER MARKETS.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	July 16		July 29		July 29		July 29	
ROSES								
Am. Beauty, Fan, and Sp.....	.....	to 25.00	20.00	to 25.00	20.00	to 25.00	15.00	to 20.00
" Extra.....	18.00	to 20.00	15.00	to 20.00	15.00	to 20.00	10.00	to 12.00
" No. 1.....	10.00	to 15.00	8.00	to 10.00	8.00	to 10.00	4.00	to 6.00
" Lower grades.....	5.00	to 8.00	2.00	to 3.00	3.00	to 8.00	.....	to 3.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	4.00	to 6.00	6.00	to 7.00	.....	to 6.00
" " " Extra.....	4.00	to 5.00	.....	to 6.00	4.00	to 6.00	.....	to 4.00
" " " No. 1 & lw. gr.	2.00	to 3.00	2.00	to 4.00	2.00	to 4.00	2.00	to 3.00
Liberty, Richmond, Fan, & Sp....	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	5.00	to 6.00
" Lower grades.....	3.00	to 5.00	3.00	to 4.00	3.00	to 6.00	2.00	to 4.00
Chatenay, Morgan, Fan, & Sp.....	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	.....	to 6.00
" Lower grades.....	3.00	to 5.00	3.00	to 4.00	3.00	to 6.00	2.00	to 4.00
Kaiserin, Carnot, Fan, & Sp.....	6.00	to 8.00	4.00	to 6.00	6.00	to 7.00	6.00	to 8.00
" Lower grades.....	3.00	to 5.00	3.00	to 4.00	3.00	to 6.00	2.00	to 4.00
Killarney, Wellesley, Fan, & Sp.,	6.00	to 8.00	4.00	to 6.00	6.00	to 7.00	.....	to 6.00
" Lower grades.....	3.00	to 5.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
CARNATIONS								
Fancy and Novelties.....	.....	to 2.00	1.50	to 2.00	1.50	to 2.00	.....	to 1.50
Ordinary.....	.75	to 1.50	1.00	to 1.50	1.00	to 1.25	.....	to 1.00
MISCELLANEOUS								
Sweet Peas.....	.25	to .35	.25	to .50	.15	to .50	.25	to
Cattleyas.....	50.00	to 60.00	40.00	to 60.00	50.00	to 60.00	50.00	to 60.00
Lilies.....	8.00	to 10.00	10.00	to 12.50	4.00	to 15.00	10.00	to 15.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	.....	to 4.00
Gardenias.....	10.00	to 12.00	10.00	to 12.00	2.00	to 10.00	11.00	to 12.00
Mignonette.....	1.00	to 2.00	1.00	to 2.00	1.00	to 1.25	.50	to 1.00
Adiantum.....	.....	to 1.00	1.00	to 1.50	.50	to 1.50	1.00	to 1.50
Smilax.....	10.00	to 12.00	10.00	to 12.50	.....	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings.....	40.00	to 50.00	50.00	to	40.00	to 50.00	35.00	to 50.00
" " " & Spreng. (100 bchs.)	.....	to 25.00	25.00	to 33.00	25.00	to 35.00	25.00	to 50.00

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
 and are dealers in
Glassware Decorative Greens and Florists' Requisites.

Look through the Buyers' Directory
 and Ready Reference Guide. You
 will find some good offers there also

The KERVAN CO.

113 W28th. ST.,
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WHOLESALE DEALERS
 Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

Moore, Hentz & Nash,

Wholesale Commission Florists,

55 and 57 West 26th Street,
Telephone No. 756
Madison Square. New York.

J. B. Murdoch & Co.

Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
 Long Distance Phone 1435 Court.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIA PUBESCENS

Albert Dirwanger, 422 Congress St., Portland, Me.
For page see List of Advertisers.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
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ADIANTUMS

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Adiantum Hybridum, 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

AGAVES

M. Bullocke, 85th St. and 2d Ave., Brooklyn, N. Y.
Variegated Agaves.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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Full delivery. Our stock will please you.
J. W. Dunford, Clayton, Mo.

ASPARAGUS

C. Elsele,
11th and Roy Sts., Philadelphia, Pa.
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Morel Bros., 624 E. Market St., Scranton, Pa.
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Asparagus Sprengeri,
2 1/2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus nanus and Sprengeri,
2 1/2 in., \$2.50 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Plumosus, 2 1/2, 3, 3 1/2, 4, 5 and 6 in., 4, 6, 10, 12, 20, and 30c. respectively. Cormorensis, 2 and 2 1/2 in., 3 and 4c. Sprengeri, 2 1/2, 3 1/2, and 4 in., 4, 8 and 10c. J. W. Dunford, Clayton, Mo.

Asparagus Plumosa, 2 in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

You'd ought to see those Plumosa Seedlings we're sending out @ 95c per hundred prepaid. They're full count and then some and packed to perfection to travel safely this hot weather. Take old Buddy Time by the forelock on that old bald pate of his and get them to growing into golden dividends now. You lose time if you wait till next month as under our special culture you can yet make nice plants for Fall trade. Budd Park Greenhouses, 40 Hardisty Ave., Kansas City, Mo. 100,000 ready.

AZALEAS

John Scheepers & Co., 4 and 6 Old Slip, New York.
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The best commercial varieties. J. W. Dunford, Clayton, Mo.

BAMBOO CANES

Stump & Walter Co., 50 Barclay St., New York.
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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEGONIAS

Begonias—Fairy Queen, Gracilis, and other flowering kinds; 3 inch \$5 per 100. Harlowarden Greenhouses, Greenport, L. I.

BOILERS

BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.
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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
Cold Storage Lilies.
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Rickards Bros., 37 East 10th St., New York.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4 and 6 Old Slip, New York.
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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.
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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.
Calla Bulbs.
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James Vick's Sons, Rochester, N. Y.
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D. Rusconi, 32 W. Sixth St., Cincinnati, O.
Callas, Narcissi, Dutch Bulbs.
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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CHRYSANTHEMUMS

Chas H. Totty, Madison, N. J. Chrysanthemum novelties.
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The H. Weber & Sons Co., Oakland, Md.
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C. Elsele, 11th and Roy Sts., Phila.
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Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting Co., 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums—All good late kinds, standard novelties out of 2 1/2 inch, up to September 1. Harlowarden Greenhouses, Greenport, N. Y.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2 1/2 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
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DAHLIAS

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DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

EVERGREENS

Bay State Nurseries, N. Abington, Mass. Small Evergreens.

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August Ralker & Sons, 31 Barclay St., New York. Small evergreens.

FERNS

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Miami Floral Co., 24 N. Main St., Dayton, O. Boston Ferns. For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., 31 Exchange Ave., Chicago.

"Wizard Brand" Sheep Manure.

FICUS

Wm. C. Smith, 61st and Market Sts., Philadelphia. For page see List of Advertisers.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-3 Bowery, New York.

FLORISTS' LETTERS.

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Reed & Keller, 122 W. 25th St., New York. For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa. For page see List of Advertisers.

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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich. For page see List of Advertisers.

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Gude Bros. Co., 1214 F St., Washington, D. C. For page see List of Advertisers.

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Young & Nugent, 42 W. 28th St., N. Y. For page see List of Advertisers.

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P. J. Hauswirth, 232 Michigan Ave., Chicago. For page see List of Advertisers.

William J. Smyth, Michigan Ave and 31st St., Chicago. For page see List of Advertisers.

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David Clarke's Sons, 2139-2141 Broadway, New York. For page see List of Advertisers.

W. H. Donohoe, 2 W. 29th St., New York. For page see List of Advertisers.

H. G. Eyres, 11 N. Pearl St., Albany, N.Y. For page see List of Advertisers.

Mills, the Florist, Jacksonville, Fla. Telegraph or mail orders promptly filled. Long distance telephone connections.

FLOWER POTS

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich. For page see List of Advertisers.

GARDENIAS

Stumpp & Walter Co., 50 Barclay St., New York. Gardenia Plants. For page see List of Advertisers.

GERANIUMS

2000 Geraniums—Nutt, La Favorite, Gen. Grant, Pride of the West; 3 1/2 in. pots, \$5.00 per 100; \$40.00 per 1,000. Wm. Patterson, 92 South Central Ave., Wollaston, Mass.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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John Lewis Childs, Floral Park, N. Y. Gladiolus Blooms.

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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston. For page see List of Advertisers.

GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa. For page see List of Advertisers.

GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

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Hitchings & Co., 1170 Broadway, N. Y. For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston. For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y. For page see List of Advertisers.

J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill. For page see List of Advertisers.

Foley Mfg. Co., 471 W. 22nd St., Chicago. For page see List of Advertisers.

Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y. For page see List of Advertisers.

S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

D. Iliffe, 49 Washington St., N., Boston. Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y. For page see List of Advertisers.

GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass. For page see List of Advertisers.

The Kervan Co., 113 W. 28th St., N. Y. For page see List of Advertisers.

Michigan Cut Flower Exchange, 38 & 40 Broadway, Detroit, Mich. Fancy Ferns.

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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY PERENNIALS

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John A. Payne, 260-274 Culver Ave., Jersey City, N. J.

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Johnston Heating Co., 1133 Br'dway, N. Y.

In writing to Advertisers kindly mention Horticulture

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.

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Lord & Burnham Co., 1133 Broadway, N. Y.

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HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.

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HYDRANGEAS.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.

Hydrangeas for Summer Blooming.

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INSECTICIDES.

Nicotide kills all greenhouse pests.

P. R. Palethorpe Co.,

Eleventh St., Owensboro, Ky.

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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.

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Gude Bros. Co., 1214 F St., Washington, D. C.

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David Clarke's Sons, 2139-2141 Broadway, New York.

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W. H. Donohoe, 2 W. 29th St., New York.

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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.

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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.

Long distance telephone connections.

LILACS

August Rolker & Sons, 31 Barclay St., New York.

Forcing Lilacs.

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LOBELIAS

LOBELIA KATHLEEN MALLARD.

New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.

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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

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NURSERY STOCK

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.

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The Conard & Jones Co., West Grove, Pa.

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New England Nurseries, Bedford, Mass.

Shrubs, Roses and Herbaceous Perennials.

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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.

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Sander, St. Albans, England.

Importers, Exporters, Growers, Hybridists.

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Carrillo & Baldwin, Secaucus, N. J.

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Selbrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.

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Orchids, Orchid Baskets, Peat.

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Selbrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.

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August Rolker & Sons, 31 Barclay St., New York.

Kentia Palms.

Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange.

38 and 40 Broadway, Detroit, Mich.

Greenhouse Paint and Putty.

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PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.

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PEONIES

Cottage Gardens Co., Queens, N. Y.

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Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

Peony and Phlox Manuals, 25 cents each. One of the finest collections of Peonies in America. C. S. Harrison's Select Nursery, York, Nebr.

French Peonies. The best collection. All varieties guaranteed true to name. Large stock. Strong plants. Catalogue free. Dessert, Peony Specialist, Chenonceaux, France.

All the new French Peonies grown by a specialist right at home. The best that can be obtained from any source. Everything as represented and no small nursery stock sent out. E. J. Shaylor, Wellesley Hills, Mass.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.

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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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ROSES

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Hardy Roses, H. T. Jones and Ramblers.

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Lady Gay Roses.

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Chicago Carnation Co., Joliet, Ill.

American Beauty Plants.

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Jno. Burton, Chestnut Hill, Philadelphia, Pa.

American Beauty Plants.

Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

725 Maids, 200 Ivory, 75 Gates, very strong, in 4 and 3 1-2 in. Just right for benching, \$5.00 per 100, \$40.00 for the lot.

Cash. J. W. Dunford, Clayton, Mo.

RUSTIC WORK

Wm. Elliott & Sons, 201 Fulton St., N. Y.

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SALVIAS

2 1-2 in. Very strong, 2c. J. W. Dunford, Clayton, Mo.

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J. M. Thorburn & Co., 33 Barclay St., N. Y.

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A. T. Boddington, 342 W. 14th St., N. Y.

Challenge Pansy Seed.

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12 Stormgade, Copenhagen, Denmark.

Cauliflower and Cabbage Seed.

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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

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Giant Pansies.

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Sweet Pea Seed, Mignonette Seed.
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Francis Brill, Hempstead, L. I., N. Y.
Garden Seeds.

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I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Mar-
ket St., Boston.

Pulverized Sheep Manure.

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIREA

Spirea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

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VEGETABLE PLANTS

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R. Vincent & Sons Co., White Marsh, Md.
Celery Plants: Cabbage Plants.
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Morel Bros., 624 E. Market St., Scranton,
Pa.
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Danish Ball Head Cabbage—Strong
straight root-pruned plants, ready for field,
from the best imported seed. \$1.50 per 1000.
Frank Shearer & Son, Market Gardeners,
Binghamton, N. Y.

100,000 field-grown tomato plants, C.
Jewel, L. Beauty, etc., \$1.00 per 1,000. 15
varieties cabbage, \$1.00 per 1,000; \$7.50 per
10,000. Celery plants, \$1.25 per 1,000; 10-
000 for \$10.00. 50,000 cauliflower, best
snowball, 50c. per 100; \$2.50 per 1,000.
Cash. Catalogue. F. M. Pattington,
Scipioville, N. J.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.
The Chicago Lifter.

VENTILATING MACHINERY, New
Model encased, self-oiling gear; Standard
Model Open Gear. Lord & Burnham, 1133
Broadway, N. Y.

VIOLETS.

5000 clumps California violets, ready now,
finest stock in the west, 4 1-2 c. 250 or
more at 4c. J. W. Dunford, Clayton, Mo.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue.
Molton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 88-40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

All standard frames in stock. Special de-
signs made to order in hurry-up time. N.
F. McCarthy & Co., 84 Hawley St., Bos-
ton, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for
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Boston.

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LORRAINES. CONVENTION
INVITATION TO RIVER-
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NEWS NOTES.

Hitchings & Co. have moved into their new factory at East Elizabeth, N. J., and have commenced operations in the foundry department. The construction shop remains at West Side avenue, Jersey City, for the present.

The range of new houses soon to be commenced at Bronx Botanical Garden, New York, is planned eventually to be the largest range in the world. Power house and a portion of the heating apparatus have already been installed. The first group will consist of five houses. Bids on construction of same will be opened August 1.

An oval bed of ornamental foliaged plants, 16x30 feet in extent, in front of the City Hall in Detroit, is one of the prime attractions of the neighborhood. A noble specimen of Phoenix Leonensis, 12 feet in height, forms the centre. Pandanus Veitchii, acalyphas and crotons in formal arrangement are the other components, echeveria Mirabilis being used as a border. The effect is very good.

J. W. Rodgers, superintendent of the parks of Cincinnati, has incorporated in his recommendations to the Board of Public Service a proposal that the present city greenhouses be increased to about double their present extent and that a city nursery of fifty acres be established on high ground for the raising of trees and shrubs for the park department. Mr. Rodgers has recently returned from an extended tour of inspection of the public parks and playgrounds of other cities.

New England agriculturists are giving increased attention to the raising of alfalfa, as a forage plant. The Agricultural Experiment Station in Durham, N. H., has just issued a bulletin on the subject, which says: "Up until the present time we have advised against the expenditure of very much time, labor or money by the farmers in trying to grow the plant, because in our experiments we could not secure what would be called a reasonably good stand. After repeated trials, however, in which various methods have been used, we have met with a degree of success which seems to warrant a recommendation for alfalfa to the farmers of the state."

Over 100 florists from Omaha, Council Bluffs and South Omaha held their annual picnic at Lake Manawa Thursday last. Owing to the recent rains and dampness of the lawns the usual contests were not held, but there was a bowling competition, in which J. Hess of Omaha won first prize, a beautiful silver mounted umbrella; J. F. Wilcox of Council Bluffs second, and B. Floth of Omaha third, the last two receiving each a box of cigars.

Supper was served at 6 o'clock, after which the entire party went across the lake for a plunge at Manhattan beach, after patronizing the roller coaster and other park attractions.—Omaha Bee.

The Detroit Florist Club will give an outing to Bois Blanc on August 8th, '07, with a good athletic programme as a special attraction.

MARYLAND'S VARIETY OF FRUITS.

One visiting the Maryland horticultural exhibit in the States Exhibit Palace at the Jamestown Exposition this week found nine different kinds of fruits exhibited. They are Red Astrachan and Early Harvest apples, and Greensboro peaches from the Maryland Experiment Station at College Park; Yellow Transparent apples, Lawson pears, huckleberries, Red Miller raspberries, Japanese wineberries, and Greensboro peaches from J. Spencer; Marianna plums from Miss Salome Carey, Holloway gooseberries from R. H. Phelps, and Lucretia dewberries from J. A. Davis. Over twenty extension tables are covered with these luscious fruits.

The object of the exhibit is to show the visitors to the exposition the horticultural possibilities of the State, and surely this variety and the excellence of the fruit shown impresses one with the ability of the State to live up to the claims of the ardent admirers of this industry.

The trucking industry is also well represented this week by a large exhibit of cucumbers from W. F. Allen, and large new Irish Cobbler potatoes from F. E. Matthews, and new table corn in the ear from Miss Salome Carey.

Special Philadelphia Convention Number Will Be Issued August 17.

It will reach the best trade at the convention and all through the country.

Send Us Your Advertisement Now.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Competent assistant in flower, seed and bulb department. State experience and salary wanted. Address Schlegel & Fottler Co., Boston, Mass.

SITUATIONS WANTED

WANTED—Situation by young man to do landscape work or as foreman of a private place; has graduated from an agricultural school and has had four years experience. Address S. T., care of HORTICULTURE.

SITUATION WANTED—I will be open to a situation September 15, 1907, as foreman on a commercial plant or as head gardener on private place. 2½ years' experience; married, no children. Address, Florist, 1187 Montello St., Campello, Mass.

GARDENER wishes position on private place as head; competent in all branches of gardening, landscape work and improvements; care of live stock; capable of taking full charge; age 38; married, two children; best of references. Address Gardener, care of HORTICULTURE.

?

Is Your Name In The Above List? If Not, Why Not?

?

PICNIC OF THE FLORISTS' CLUB OF WASHINGTON.

On July 25th, for the first time in the history of the city, all the florists closed their stores at noon, in order that all the employees, as well as the managers, could attend the annual outing of the Florist's Club of Washington. This year the Great Falls of the Potomac was the objective point of the picknickers, and thither, at 2 P. M. cars carrying about 200 men, women and children, and gaily decorated with bunting and flowers, wended their way.

During the trip, cigars and peanuts were handed to the passengers, and on arriving at the Falls, Queen Beatrice and Liberty roses were freely distributed among the ladies. Attached to one of the cars, was a freight car, carrying things suggestive of coolness, viz: Ice cream, ginger ale and root beer.

Among the principal features of the day were the athletic contests, which were in the following order:

Potato race, open to all, 75 yds.; prize, belt. Winner, Frank Fleury.

Potato race, for girls, 50 yds.; prize, beads. Winner, Marie Bisset.

100 yd. dash, for men; prize, 1 doz. handkerchiefs. Winner, Robt. Featherstone.

50 yd. dash, for ladies; prize, parasol. Winner, Eva B. Cooke.

100 yd. dash, for boys, 18 and under; prize, baseball. Winner, David Buriar.

Three-legged race: prize, suspenders and necktie. Winners, J. Sharper and B. Johnson.

Sack race: Prize, pen knife. Winner, Oliver Beveridge.

While the athletic events were of great interest to all, especially to the winners, the most interesting feature of the entire afternoon was the fine old Maryland dinner, which was served at the Dickey homestead. Everything was in abundance and of the best, and as "the proof of the pudding is in the eating," judging by the rapidity with which things disappeared, the proof was indisputable.



OUTING OF THE FLORISTS' CLUB OF WASHINGTON, AT THE GREAT FALLS OF THE POTOMAC.

The Dickey Homestead in the Background.

Grateful thanks are due to the able committee—Geo. Shaffer, chairman; Sec. McCauley and F. H. Kramer, for the manner in which everything was handled. The day will go down in history as a red-letter day to the florists. May history repeat itself each year!

WASHINGTON PERSONALS.

Business has been rather quiet for the past week, very little doing. Several florists are taking advantage of the dull season for their summer outings, viz: Z. W. Blackistone, who with his family is sojourning at Boyd's, Md.; L. Hoover, of the firm of Mayberry & Hoover, is enjoying the salt breezes at St. George's Island; Mrs. Robertson, wife of John Robertson, florist, of 1108 Conn. Ave., has gone to Scotland to visit relatives and friends.

TOLEDO (O.) PERSONALS.

It has finally leaked out that Frank J. Schoen of the Schoen Floral Co. has taken unto himself a wife, who was Miss Grace Howes of Maumee, O., until April 9th. The ceremony took place at the church of Immaculate Conception, Toledo.

H. A. Mills, who is getting well along in years, intends to sell his business, which is located on Starr Ave. He has been quite successful and deserves, with his faithful wife, who has been his steady helpmate, an easy time for the rest of his life.

What the inmates of an Insane Asylum can do in the way of landscape flower gardening under the directions of superintendents, is revealed by a visit to the State Hospital. The grounds are in perfect condition and bear testimony of the skill of the two superintendents, Mrs. Davis, for the landscape and Mr. Halbach, for the flower department. Beautiful specimens of trees and shrubs may be seen here and it would be hard to duplicate them. The principal plants used in flowering groups are cannas, geraniums, coleus, salvias and as the beds are large they are very effective.

PERSONAL.

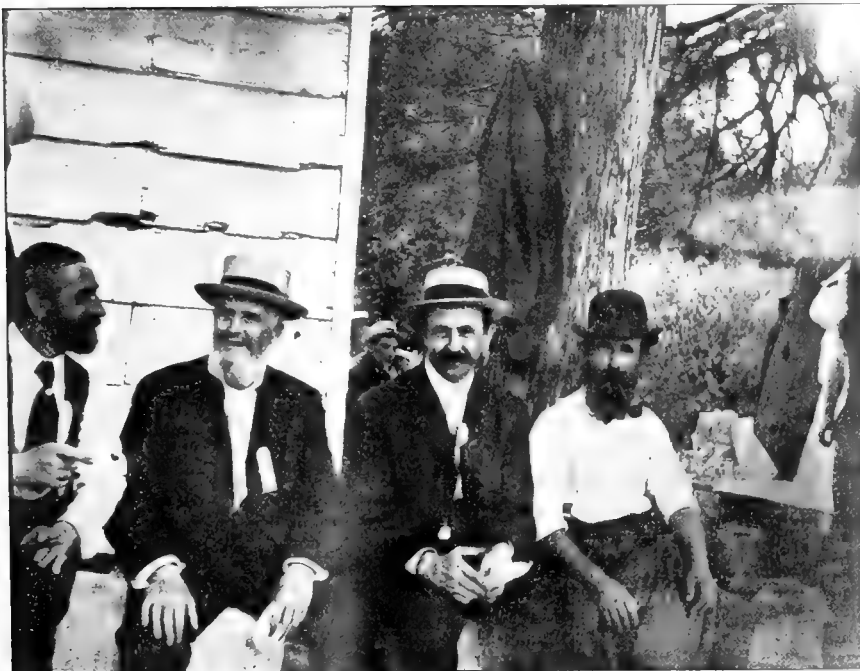
F. W. Timme, of Chicago, has sailed on a two months' visit to Europe.

Robert Simpson, wife and children, Clifton, N. J., sailed for England on July 30.

J. A. Peterson and wife of Cincinnati, after visiting Washington and Philadelphia, sailed from New York on August 1, on the Scandinavian steamer Oscar 2d, for Christiana and Copenhagen.

The names of J. J. Hooper, president of the horticultural society, and W. A. Willey, have been mentioned as successor to the late William Stone, superintendent of Pine Grove Cemetery, Lynn, Mass.

George K. Kester, a florist, of 6150 Lombard St., formerly of Silverdale, Bucks county, Pa., disappeared from home Thursday, three weeks ago, and left his wife and children and mother penniless. They are in great distress. He was last heard from in Pittsburg.—Philadelphia Inquirer.



"WHERE'S THAT CHICKEN?"

H AND CO

OUTLIVED USEFULNESS

You are quite right, it is not so many years since we used to talk wooden eave plates, and sold lots of houses with them—but we had our troubles because those wooden plates gave our customers “rot out” and ice troubles. We did a good bit of tall thinking, and now you will find our houses are built with steel eaves and cast iron roof bar brackets. This makes an eave which binds and stiffens the house at a point that is the weakest in the all cypress house. There is a long headedness in knowing when a thing has outlived its usefulness, and having the sense to discard it.

The wooden plate is a back number; write to H & Co. for further information.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway, NEW YORK.

GREENHOUSES BUILDING OR CONTEMPLATED.

New.

Summit, N. J.—N. N. Coler, Jr., conservatory, Hitchings & Co., builders.
Additions.

City of New York—Bronx Park, one house.

Buffalo, N. Y.—S. A. Anderson, house 18x100.

Hinsdale, Ill.—W. H. Edwards, two carnation houses.

New Bedford, Mass.—Wm. Livesey, two houses.

Hamden, Md.—Kerr & Green, house 28x75.

Fullerton, Md.—G. Mehl, carnation house

Raspeburg, Md.—A. Beckman, two houses.

Minneapolis, Minn.—E. Nagel & Co., range of houses.

Hyde Park, O.—G. Meier, four houses, each 22x100.

Utica, N. Y.—S. Pinkstone, two houses, each 18x100.

N. Y. Mills, N. Y.—G. Du Moulin, one house.

Utica, N. Y.—W. Hermont, one house.

Baltimore, Md.—J. E. Bartell.

Omaha, Neb.—Lewis Henderson, enlarging; Peterson Bros., one house.

Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

W. H. ERNEST,

28th and M Street WASHINGTON D. C.



I MANUFACTURE AND ERECT

Iron frame and wood Greenhouses of every type for commercial and private use.

If you contemplate building, allow me to submit sketch and estimate covering your requirements.

JOHN A. PAYNE,

Horticultural Architect and Builder.

Main Office and Factory:

260-274 Culver Ave., Jersey City, N. J.
Sash opening apparatus and all kinds of greenhouse structural material.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2 " " "	5.25	60 8 " " "	3.00
1500 3 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/2 " " "	5.80	24 10 " " "	4.80
500 4 " " "	4.50	24 12 " " "	3.60
320 5 " " "	4.51	12 14 " " "	4.80
144 6 " " "	3.16	6 16 " " "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

THE ELECTRIC CIRCULATOR

The most useful device introduced in many years for the greenhouse man

See last week's full page advertisement in HORTICULTURE, also several previous issues for the opinions of the most practical and prosperous plant and flower growers.

W. W. CASTLE

Heating Engineers

170 Summer St., BOSTON

NIKOTEEN APHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM

PRICE 60¢
PER BOX OF 12
LONG SHEETS

\$6.50 PER
CASE OF
12 BOXES

NIKOTEEN

LIQUID

FOR SPRAYING OR VAPORIZING

PRICE \$1.50
PER PINT
BOTTLE

\$13.00 PER
CASE OF 10
PINT BOTTLES

NICOTINE MFG. CO. ST. LOUIS MO.



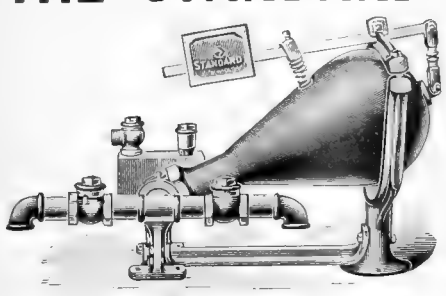
The Best
Bug Killer and
Bloom Saver

For PROOF

Write to

P. R. Palethorpe Co.
OWENSBORO, KY.

THE STANDARD STEAM TRAP



is acknowledged the best for the florist, because it is durable and does its work without trouble and annoyance, saving its cost by the economy in coal bills.

E. HIPPARD
YOUNGSTOWN, OHIO

Clipper Lawn Mower Co.

DIXON, ILL.



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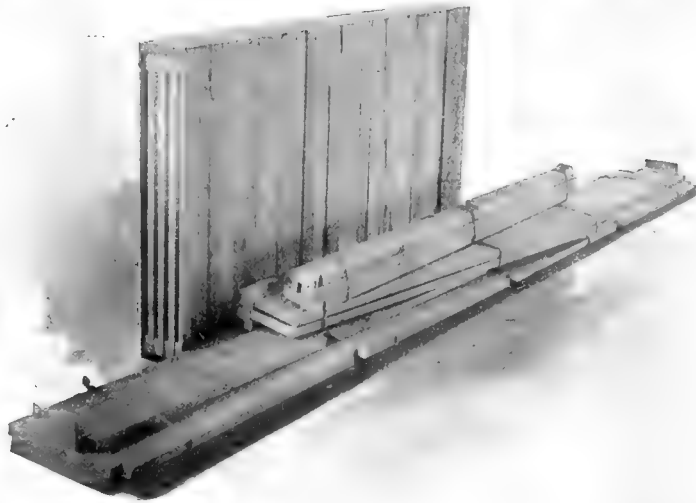
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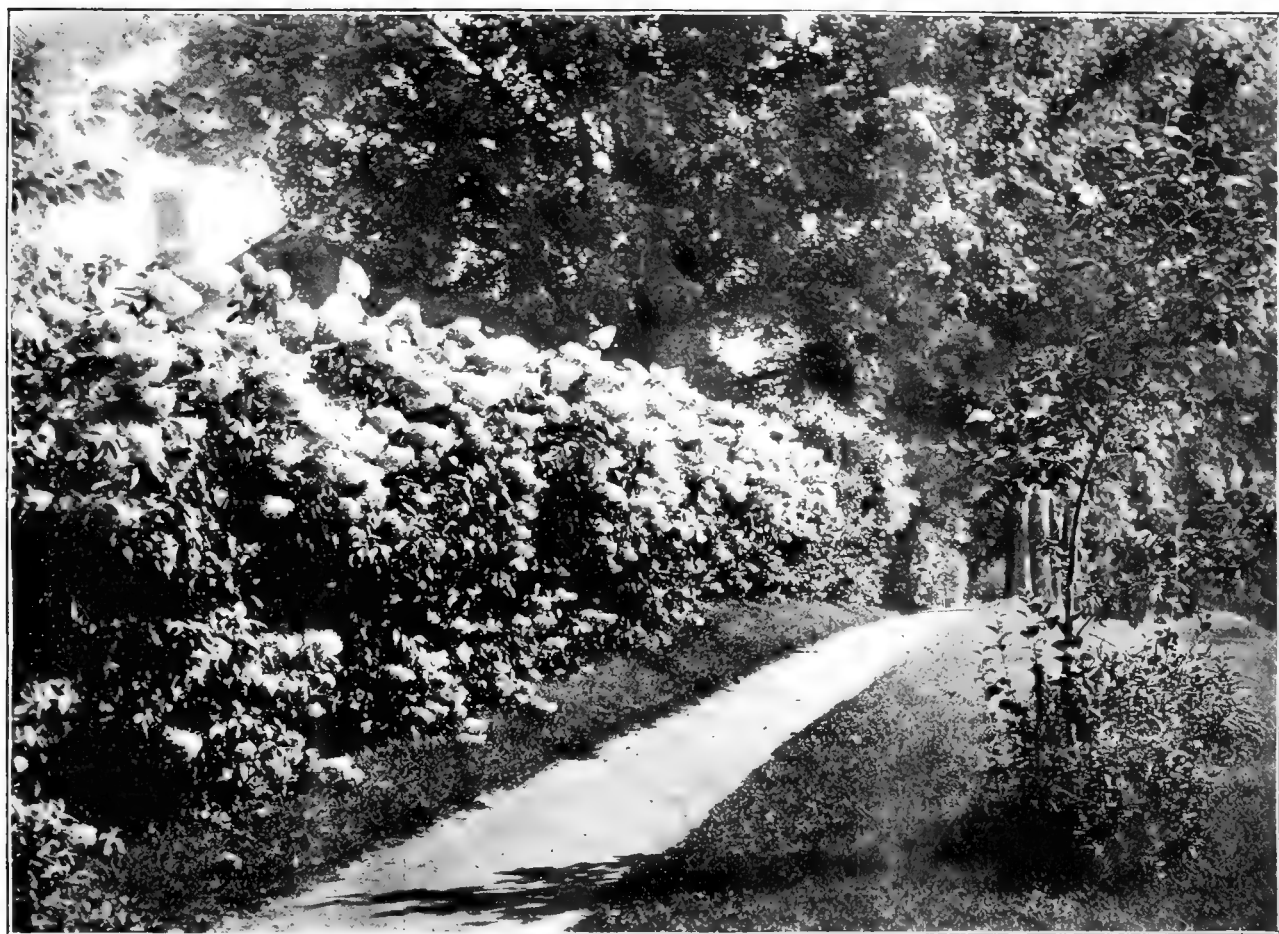


HORTICULTURE

Vol VI.

AUGUST 10, 1907

No. 6



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Ginkgo biloba—female

G. biloba—male

Torreya nucifera

Taxus baccata arg. var.

TAXACEAE

These are the nut-bearing conifers. They are divided into two tribes—Salisburineæ and Taxineæ.

Salisburia adiantifolia or Ginkgo biloba has been already described in this paper in the July 6 number and it is useless to say more about it; it is certainly a beautiful tree, more appreciated here than it is in Europe, for it is the best to plant as a city tree, always clean and free from disease and insects. One thing I would add to M. Thomas' note: The tree is dioecious—that is to say, there are male and female trees, which are easy to distinguish one from the other when of a certain size. The male grows bushier than the female, which has long, slender branches and when these are covered with their yellow plum-like fruits, it adds much to the interest of the tree. I have to acknowledge, however, that when they begin to drop their fruit it becomes a real nuisance, especially on the walks.

Cephalotaxus, which are dioecious and have plum shaped fruit, also, are only hardy in good sheltered situations. C. Fortunei from China is the best, with long, flat, soft glassy needles. C. drupacea from Japan, where it is found as an undergrowth, is a lower growing bush with shorter needles. C. pedunculata, from Japan, is most familiar in the variety fastigiata, which looks like an Irish yew with much longer and larger needles. It freezes back very often and wants to be well-watered.

Torreya taxifolia, from Florida and myristica or California—the California nutmeg—are not hardy in New England. T. nucifera, from Japan, is quite hardy in shady, sheltered situations. In appearance it resembles much cephalotaxus but has stronger, more bushy growth, and has very sharp-pointed and stiff needles. It burns on the sunny side in winter when exposed, but grows out again. This tree is very little known and is seldom seen in cultivation. It is dioecious like Ginkgo. We have only male plants, and do not know if there is a difference in the appearance of the two. In some seedlings which we have some have much shorter needles than others and a more Araucaria-like growth. The plants are only four years old, and I can not say definitely about them.

Taxus are very ornamental bushes where they can be grown and when they are covered with their red berry-like fruits they look very attractive. T. canadensis is our American yew, a low bush well-known, very useful—but not much used—to plant under the

trees in the woods as ground cover. It grows as well in the open but does not like the sun. T. Washingtonii and repanda are probably forms of canadensis. The first has a yellowish color which turns brown in winter while repanda is very dark green and of spreading habit.

T. baccata is the English yew. Every Englishman is proud of the beautiful old yews which are found in his country and all the topiary work done with young ones. Here we cannot say the same for it is only in shady well-sheltered places that they will succeed. There are quite a few varieties which can be grown wherever the common one will stand. T. adpressa and ad. stricta have very short roundish needles, very distinct from the others. They are sometimes known under the name of tardiva, but we have from Japan one tardiva which is very different. It is a low spreading bush with longer needles, of a glossy dark-green color variegated with bright yellow. Aurea, aurea pendula and elegantissima are three good yellow-variegated forms. Dovastonii and its variegated form are of spreading habit with long, somewhat pendulous branches with larger needles. Fastigiata or Hybernica and their variegated forms are beautiful erect-growing trees, but they are the tenderest of the lot. Erecta and cr. variegata are hardier; their growth is more fan-shaped, with smaller needles. There are many other forms like Cheshuntensis, epacrioides, gracilis pendula, etc., but the best for New England is albo-variegata, raised in Germany. It is a good, bushy, straight-grower, quite hardy and, when growing, is of a beautiful cream color, which stands nearly the whole year.

T. cuspidata and cusp. brevifolia are the best for our region. They come from the northern part of Japan. The growth is different from that of the English yew; not so bushy, the branches long, well furnished with short shoots, the needles thicker and of a lighter green color. T. brevifolia from California and floridiana are not hardy.

Phyllocladus Vacyrdium, Padocarpus, Prumnopitys and Taxgothæa, which belong to the same tribe, are not hardy and can only be grown in tubs like araucarias, bay trees, and the like. Prumnopitys, which comes from Japan, is the hardiest and could be tried in exceptionally sheltered situations.

Am. D. H. Am.

British Horticulture.

THE SWEET PEA SHOW

The sweet pea cult is still booming on this side, judging by the success attending the annual show of the National Society. The entries numbered 797, arranged in 88 classes, whilst the bunches of flowers totalled 3,217—1,200 more than at the exhibition last year. The season has proved unfavorable for the northern growers, and in consequence the chief awards went south. Among the winning novelties was a very fine introduction named *St. George* which will be sent out by Messrs. Hurst and Son. The standard is bright orange red, whilst the prevailing color of the wings is bright rose. It received an award of merit at the Royal Horticultural Society's show at Holland House, Kensington. *Elsie Herbert* is a picotee flower of the Countess Spencer type. The margins of the petals are tinged with rose, which fades in the centre of the flower to almost pure white. *Silas Cole*, who raised the Countess of Spencer and other popular varieties, received an award for a new variety bearing his own name. The blooms are of a bluish-violet in the centre, shading to a deep maroon in the outer parts of the petals. The other awards were granted to the following: *Nancy Perkins*, pale orange-scarlet, shaded with terra-cotta; *The Marquis*, lavender; *Rosie Adams*, centre parts of a heliotrope tint, merging to rose in a large standard, and *Evelyn Hemus*, creamy-white with rose-colored margins.

THE SWEET PEA TRIALS

A further series of sweet pea trials has this year been conducted at the University College gardens, Reading, under the direction of Chas. Foster, the horticultural superintendent. After the show a party of members of the National Sweet Pea Society journeyed to Reading and inspected the trials. The floral committee made an exhaustive inspection of the seedlings, and as a result five of the varieties which received awards at the show were confirmed. A first-class certificate was granted the American introduction, *Helen Pierce*, the popular marbled blue, which is scheduled as the best variety in this section in the Society's audit class. It was noticed that many of the strains were considerably mixed, and it was a difficult matter to find the real variety. There is certainly a need for greater care in sending out new varieties. Endless confusion has been caused by the unnecessary hurry of raisers in placing novelties on the market before they are properly fixed. At the recent show in two cases flowers which were apparently *Lord Rosebery* were shown as *John Ingman* and these were disqualified, to the chagrin of the exhibitors. I heard of an instance this week where a grower has *John Ingman* and several other kinds coming out of the seed purchased as *Henry Eckford*. It is also reported that a variety known as *Coral Gem* is a hooded form of *Countess of Latham*. There is evidently plenty of scope for the National Society in keeping an up-to-date list of synonyms, a guide to growers.

A NEW DEVELOPMENT

The Royal Horticultural Society has further extended its usefulness by the establishment of a laboratory and research station in the gardens at Wisley. The society is establishing a school of horticulture for training young gardeners, and it will now be able to train students in the scientific branches as well as in the routine of cultivation. The Surrey County Council has arranged with the society to send a number of boys from the county schools for instruction. As explained by Lord Avebury, who performed the formal opening recently, the society has two objects in view in extending its work, viz., the improvement of horticulture by giving the best possible training to a certain number of young gardeners, and the promotion of horticultural and botanical science by experiment and investigation. Lord Avebury added "Among the subjects it is hoped to experiment upon in the near future are soil-sterilization by steam as a means of destroying pests of plants which live in the soil; an investigation into the influence of sterilization on the plants cultivated in the soil; study of the bacterial flora of the soil; etherization of plants; investigation of certain plant diseases. Each of these subjects will entail a large amount of laboratory work, as well as experiments in the garden." The work which will be undertaken at the laboratory is of such national importance that the society should not be called upon to rely for voluntary effort for the necessary funds. It is a case where state aid can be legitimately claimed. The British Government has never been very liberal in aiding the valuable work of societies of this character, for we are not as fortunate in this respect as America and the Colonies.

MESSRS. SUTTON'S TRIALS

Messrs. Sutton and Sons for some time have been conducting a valuable series of potato trials on their extensive experimental grounds. At the Temple show an interesting feature was their display of wild species of tuberous solanums and hybrid seedlings raised from them. Amongst the former were the wild potato of Uruguay, *Solanum Commersonii*, *S. Maglia*, *S. verrucosum* and others. Respecting these, Messrs. Sutton state: "It is especially noteworthy, in view of the fact that so many scientists are now engaged in the search for the original wild type of *Solanum tuberosum*, which gave rise to the cultivated potatoes, i. e., the potatoes of commerce, that in no case do any of the seedlings raised from the wild types grown by Messrs. Sutton and Sons show any variation whatever from the parent types, whereas on the other hand seedlings raised from the cultivated potato never come true, and seldom, if ever, show any marked resemblance to the parent." A party of experts who visited Reading lately were greatly impressed with the value of the experiments. There have been some trials of plants raised from seeds and tubers received from W. Stuart, of the Vermont Agricultural Station.

W. H. Adsett.

LIBRARY NOTES.

I find my last contribution under the above heading appeared in HORTICULTURE as far back as January 19. In the interim there has been no cessation of the efforts on the part of the publishers to add to the already lengthy list of gardening publications and there is a considerable pile of new volumes lying on my library table awaiting notice.

A short notice of some of the more important and interesting ones is all that is within the bounds of possibility and may interest some of the readers of HORTICULTURE who in their gardening have also literary tastes. We will begin with a handy little volume entitled *Every Man's F. Rowles*. (Hodder and Stoughton, London). This is a companion volume, similar in style and size, to one previously noticed, viz.: *Everyman's Book of Garden Flowers*. It is essentially an amateur's guide and is illustrated with about 200 small line engravings, and dealing with propagation, protection for plants, manuring, tillage, weeds, tools, and pruning and concluding with a garden glossary.

Les Iris dans les Jardins, by H. Correvon and H. Masse (Librairie Horticole, Paris and Jardins Correvon, Geneva). Books on the Iris are few in number, the most recent one in English being that by Mr. R. Irwin Lynch entitled *The Book of the Iris* which is a comprehensive monograph likely to meet the requirements of most English speaking cultivators. The one under notice, however, is French and the name of M. Correvon is a sufficient guarantee of its excellence. His experience in matters of the Iris, to say nothing of his knowledge of Alpine plants, is a most extensive one for he has personally visited every collection of repute in Europe and is acquainted with all the leading growers on this side.

This little handbook deals with the history of the flower, with its geographical distribution, with its culture and propagation. The references throughout the book show a wide area of research and references to innumerable authorities who have written on matters relating to the Iris, a task for which M. Correvon is peculiarly adapted considering his linguistic ability. The cultural directions are from the pen of M. Masse who is a capable exponent of the art of Iris culture, and to anyone able to follow the writer in the language in which the book is written it will doubtless prove to be a useful and interesting *vade mecum* on a flower of no mean importance in our present day flower gardens.

Report of the Third International Conference, 1906, on Genetics. Edited by the Rev. W. Wilks (Royal Horticultural Society, London). This is a bulky volume of nearly 500 pages containing a report of the proceedings of the conference, the papers read, and reports of the festive gatherings at which the invited guests were entertained. Being of a specially technical character the report does not form part of the R. H. S. Journal in an ordinary way but is issued as an independent publication.

In the text are inserted at intervals some very excellent process engravings

many of them portraits of prominent members of the society and of the gentlemen who attended the conference. The frontispiece is that of Gregor Johann Mendel, of whom the editor gives a short biographical sketch and account of his work in plant hybridization. Those persons interested in Genetics will find in this volume a mine of information that for all practical purposes may be considered as being up-to-date.

First Steps in Gardening, by Walter P. Wright and Edward J. Castle, (Cassell & Co., London and New York). There are 150 pages written in clear, succinct and sometimes trenchant terms. There is no waste of words and most of the directions given are severely practical. Hence these books have appealed to a wide circle of amateur gardeners in this country.

Old Fashioned Flowers, by Maurice Maeterlinck, (George Allen, London). A tastefully gotten up book translated from the German with some pretty colored illustrations by G. S. Elgood who has already done some excellent work in this way for other horticultural writers as previously mentioned in former articles on "Library Notes." The text consists of a series of essays upon flowers that appeal most to the author's taste and are treated more in a literary and artistic way than in a practical or cultural manner. The main divisions are old fashioned flowers, which have three colored pictures devoted to them "The Old Fashioned Phlox" being a very effective one showing the flowers standing out in bold relief against some clipped trees. News of Spring has for its picture "Peach Blossom" while Field Flowers are represented by a pretty plate depicting "Foxglove and Dog rose." The final chapter "Chrysanthemums" has a plate of yellow, pink and bronzy earlies represented in bushy clumps. The typographical part of the book is executed in good style, old fashioned type heavily leaded being employed and every page having a wide margin.

The Sweet Pea Annual, 1907, (Charles H. Curtis, Hon. Sec., National Pea Society, Adelaide Road, Brentford, Middlesex). This is the third annual published by our English Sweet Pea Society the contents of which appeal more especially to members but which will also interest other sweet pea growers who are not yet within the fold of this young and prosperous special Society. Apart from purely society records the contents include the Bibliography of the Sweet Pea, Sweet Peas in British Columbia, The Sweet Pea in Table Decorations, Audit of the Society's Show, 1906, Picking and Packing Sweet Peas for Exhibition, Judging Sweet Pea Novelties, etc., etc. Numerous portraits and other illustrations abound. The work is supplied to members free but non-members can obtain a copy at the price of 1-2d. post free.

National Dahlia Society—Supplement to the Official Catalogue and Culture Guide, for 1907, (H. L. Brousson, Hon. Sec., Boyton, Foots' Cray, Kent). In the year 1904 this society published its most recent cata-

logue and guide containing numerous articles on dahlia culture by various specialists followed by the society's official catalogue of varieties. Supplements were issued in 1905, and 1906. A third supplement including all the most recent novelties has now been issued bringing the catalogue close up to date.

The Scots Gard'ner together with the *Gard'ners Kalendar* by John Reid, (T. N. Foulis, London and Edinburgh). There would appear to be a demand for reprints of ancient gardening books and several, including Parkinson's *Paradise in Sole*, have been executed by enterprising publishers. The *Scots Gard'ner* was originally published in Edinburgh in the year 1683 and consequently original copies are now scarce and very expensive. This reprint is edited by Alfred H. Hyatt but does not claim to be a fac simile for, if we remember aright, the reprint is smaller in size than the original although it preserves the language and style of the author. Reid's book was divided into two parts, the first treating of contrivance, the second of the culture of plants. Under the first heading the laying out and making of a garden are chiefly dealt with, the second part is cultural. In the editor's note, following an appreciation by Lord Rosebery, he points out that John Reid in his book sets forth in the plainest and homeliest way his idea as to what a model house should be and how the garden, both profitable and pleasant, should be arranged. A fac simile of the original title page is given. The book is uniform with the *Garden Lover's* series and is published in rough green cloth binding at rather less than a dollar in American money. Considering that John Reid was one of the very earliest Scottish writers on horticulture this little volume ought to have a special interest for many literary horticulturists.

A Garden of Pleasant Flowers, chosen and arranged by Alfred H. Hyatt, (T. N. Foulis, London and Edinburgh). In every respect this is uniform with the book first mentioned, and is a little volume compiled by the editor from John Parkinson's famous "*Paradise in Sole*," and contains descriptions of the most familiar garden flowers taken from that work. In the editor's preface, after giving a few details concerning the illustrious author, he says "the literary value of 'The Garden of Pleasant Flowers' cannot be denied, nor the charm of the author's description of his plants be over-estimated. In the following pages it has been my design to select from Parkinson's bulky volume a posy of these flowers with which we are most familiar." The spelling of the original edition has been adhered to throughout.

A book of *Sundial Mottoes* by Alfred H. Hyatt, (T. N. Foulis, London and Edinburgh). Although not strictly a gardening book this is included in the *Garden Lover's* series and is in every respect uniform with the two preceding. There are no illustrations of sundials as we might have expected but simply a collection of mottoes many in Latin, some in Italian, some in English. The foreign ones are translated.

C. HARMAN PAYNE.

HORTICULTURE

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Advertising

methods, old and new

The country is swarming with "ad-smiths," and "ad-writers"—turned out by correspondence schools and similar institutions, presumably ready equipped to show the business

man how to advertise his goods. Effective advertising

is an accomplishment of which but few business men are masters and there is undoubtedly a place for the intelligent assistant in this important department of business but, sooner or later, there is sure to be a reaction from the gush and superfluous small talk of present day publicity methods and a return to the use of simple straight-forward announcements of the kind of goods offered and their prices.

A hint for foreign exhibitors

Our foreign news notes on another page of this issue tell of the great Quinquennial Exhibition to be held in Ghent, Belgium, in April, 1908.

As our own national flower show is to take place in Chicago a few months later, this important European exhibition would seem to furnish those actively engaged in the work of preparation for the American affair a good index to the sensational novelties and other valuable things not yet known or appreciated here as they should be and an effort in the direction of inducing the exhibitors to participate in the exhibition here might yield some good results. Foreign growers of new varieties should make a note of the American National Show and arrange to put in an appearance. They will find the profession here most appreciative.

A duty to yourself

The action of the United States Express Company in only complying with the strict letter of the ruling of the Interstate Commerce Commission is a disappointment to many flower shippers who had reason to believe that the order of the Commission would bring them relief as well as their neighbors. There is no question that their interests will be protected in due time but the incident is an eye-opener as to the character and purposes of these monopolies whose services are indispensable to the flower and plant shipper. The most disquieting feature of the situation is the reluctance of so many of those who are suffering from the exactions of transportation companies to line up in support of the society which is practically the only medium through which relief may be obtained. Why not come to Philadelphia and help by your presence and advice in this and other movements which are under way for the benefit of yourself and your neighbors?

A remedy in sight

As a curb to the reckless tyranny of the common carriers the proposed parcels post seems to promise well and were it not for the powerful opposition of the Express Company interests in Congress a parcels post would undoubtedly have been established long ago. Are you interested? As a dealer in seeds, small plants, flowers, bulbs, cuttings and other articles which might be carried promptly, safely and cheaply by the Post Office Department, have you considered what the enactment of the proposed postal law might mean to you and the conduct of your business? If you have ideas on this subject bring them to Philadelphia. Action on such matters by the national society carries with it strength only in proportion to its numerical support. Individual activity in every Congressional district will compel attention. Come to the convention and assist in the adoption of some policy on which all can unite and then go out and work.

SEEN AT CRAIG'S.



A HOUSE OF CROTONS AND PANDANUS VEITCHII

Turnford Hall, the white form of the Lorraine Begonia, did not sell well last year and few of the Philadelphia growers are handling it in any quantity this season. The "Lonsdale pink" form is a favorite on account of its lasting qualities. A fair estimate of the proportion can be realized from the present growing crop of the Craig Co., which consists of five thousand of the Lonsdale, two thousand of the regular Lorraine and five hundred of the Turnford Hall.

Dracaena Lindenii has proved a good house plant but D. Massangeana is still better. Robert Craig tells of a plant at Haddon Hall, at Atlantic City, which has come through the winter in

perfect condition while many other plants succumbed to the hard conditions. This and D. fragrans are really two of the finest house plants we have. D. Goldiana is also a good one and unique in coloring.

Ficus pandurata, the new rubber plant with the big fiddle-shaped leaves, has made good in every way and gets more popular the longer we know it. Mr. Craig considers this one of the very best and most profitable of his long line of introductions. Over \$11,000 worth was sent out last season and nearly double that quantity is now under way. One house is devoted to plants in 12-inch tubs.

Many Philadelphia growers make

chrysanthemums their catch crop in advance of the Easter plants. A fine novelty in the chrysanthemum line this year is President Loubet which is not only very early (flowering in October) but is of show form and dimensions. The flower is a bluish white reaching ten inches diameter under ordinary conditions. A number of the new single ones that were so popular in London last season are also under way. Kitty Bourne, Lady-smith and Mrs. Roberts, are among the most distinct and valuable.

Juanita Walsh's sensational new Rambler rose, is a promising new thing for next year. The stock of it is very limited as yet, the Craig Company having the bulk. It is semi-double, carmine with white center.

A new croton that will be heard from by and by is a brilliant crimson variety as yet unnamed, raised by Edwin Lonsdale. It is a gem of the first water.

Perhaps the most interesting of all the fine things at the Craig place at present is the new fern (Amerpohli) to which five houses are devoted. It is being propagated by the Craig Co. under contract for W. P. Craig and bookings to the amount of over twenty thousand plants for fall delivery are already recorded. According to R. Craig (the elder) "there is nothing more beautiful in the vegetable kingdom than Nephrolepis Amerpohli," and we are inclined to echo him.

G. C. W.

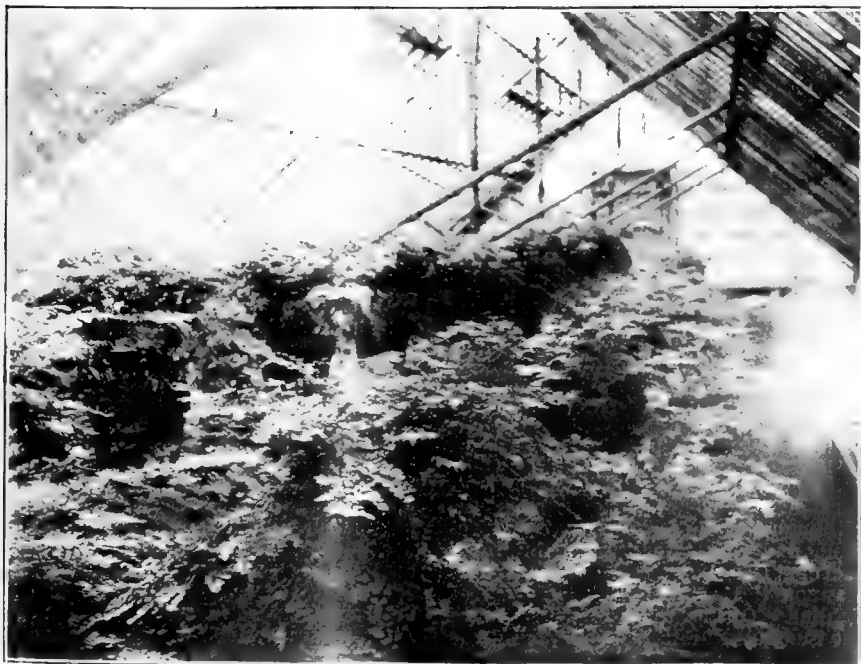
GHENT QUINQUENNIAL.

Everybody in the horticultural world has heard of the fame of the great quinquennial shows organized by the Royal Agricultural and Botanical Society of Ghent. The next one will be held in April, 1908, and coincides with the hundredth anniversary of the foundation of the society. It is only reasonable therefore to suppose that the show and festivities next year will be on a much more important scale than ever.

Our Ghent friends are always in good time and we are not surprised to find that the program has been printed and circulated. It is an interesting brochure of 118 pages and contains the regulations relating to the show, and the classes in which exhibits are invited. In all there are 760 classes divided into 29 groups of which the following are some of the principal, viz., New plants, Orchids in flower, Stove plants, Palms, Ferns, Shrubs, Hardy plants, Carnations, Bulbous plants, Azaleas, Camellias, Rhododendrons, Ornamental cool greenhouse plants, Agave, Yucca, Aloe and succulents, Conifers, Fruit, Bouquets and floral art, etc.

As a horticultural gathering this show promises to be one of the most imposing we have had in Europe for a long time past and will be attended by all the leading horticulturists on this side of the Atlantic. The welcome is always of the heartiest character and Ghent hospitality is known the wide world over. We wish the society unbounded success in its great international undertaking.

C. H. P.



HOUSE OF ADIANTUM HYBRIDUM

You will find something worth reading on every page of HORTICULTURE.

NEWS OF THE CLUBS AND SOCIETIES

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

For the meeting in Toronto, Thursday, Friday and Saturday, August 15th, 16th and 17th, the trains and rates are as follows:

Leave Boston, by Boston, Albany and New York Central at 6.02 p. m. arriving in Toronto at 10.50 a. m. Single fare, \$12.25.

Leave Philadelphia, by Pennsylvania Railroad System at 8.25 p. m., arriving in Toronto at 10.50 a. m. Single fare, \$11.85.

Leave Washington, by Pennsylvania Railroad System at 7.15 p. m., arriving in Toronto at 10.50 a. m. Single fare, about \$14.50.

Leave Chicago, by Wabash Railroad at 3.00 p. m., arriving in Toronto at 7.50 a. m. Single fare, \$11.70.

Leave New York, by New York Central at 8.00 p. m., arriving in Toronto at 10.50 a. m. Single fare, \$11.85.

All these trains connect with the C. P. R., for Toronto at Suspension Bridge, with the exception, of course, of the Chicago train, which is a through train.

Each delegate should provide himself, at time of purchasing his ticket, with a standard railroad convention certificate, which upon presentation at Toronto, will entitle him to a one-third rate returning.

The headquarters are Queen's Hotel; rates, three dollars per day. The business sessions will be held in the City Hall.

The program as announced June 28th, has not been modified. We expect short papers as follows:

Theodore Wirth, "Band Concerts in smaller or District Parks."

W. J. Zartman, "Aquatic Gardens."

John Dunbar, "Some Trees and Shrubs for Park Plantings New or Little Known."

Dr. Frank Baker. J. F. Foster.

F. L. MULFORD.

Secretary-Treasurer.

LENOX HORTICULTURAL SOCIETY.

Owing to the illness of President Heeremans, Vice-president Jack occupied the chair at the regular meeting of the above society held Saturday, August 3rd. E. Jenkins was awarded a certificate of cultural commendation for an exceedingly well-flowered *Dendrobium Phalaenopsis Shroderae*. It was unanimously voted to have a field day, the date to be decided at the next meeting. The annual and perennial exhibition will be held in the Town Hall, Lenox, on Thursday, August 15 and from all accounts will be equal to any heretofore held by the society.

G. INSTONE, Sec'y.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Julius Roehrs Co., Rutherford, Bergen Co., N. J., submit for registration; Rambler Rose, Newport Fairy. Fine dark pink, centre pale, very free flowering, strong and vigorous grower.

P. J. HAUSWIRTH, Secretary.

THE NATIONAL FLOWER ASSOCIATION OF THE UNITED

STATES, (Inc.)

Announcement.

Hartford, Conn., August 1, 1907.

The above-named Association solicits your co-operation in the movement to bring about the adoption of a national flower.

The desire for a floral emblem is now widely felt among the best people of our country; and the universal sentiments of love of our native flowers and love of our native land should find expression in a popular movement for the final adoption of one of the many candidates which have been from time to time so enthusiastically advocated by the various societies and individuals during the past years.

A renewal of the movement is now started and is being vigorously pushed by the permanent organization of the above Association, which is incorporated, and the funds of the Association are in the hands of bonded officers.

Among the class of people who should naturally be the first to become interested and also benefitted are the Florists and kindred branches inasmuch as they will be called upon to furnish the seed, plants and flowers.

A vigorous campaign is now in progress and your membership is earnestly solicited at as early a date as convenient. Do It Now.

We have the honor to remain,

Respectfully yours,

LEVERETT K. SEYMOUR,

National Sec'y & Treas., Hartford, Conn.

E. ALEXIS TAYLOR, President, Forestville, Conn.

WM. J. STEWART 1st Vice-President, Editor Horticulture, Boston, Mass.

J. C. VAUGHAN, 2d Vice-President, Pres. Vaughan's Seed Store, Chicago, Ill.

A. N. PIERSON, 3d Vice-President, Florist, Cromwell, Conn.

NORTH SHORE HORTICULTURAL SOCIETY.

This society held its regular meeting on the 2d inst., President McGregor in the chair. Certificates of merit were awarded for the following exhibits: *Lilium Canadense* by James Scott; sweet peas, hybrid sweet william and *Celsia Arcturus* by Herbert Shaw; pentstemons, asters and the new marigold Sunburst, by James Salter; gladioli and four seedlings of *Chrysanthemum maximum* x *Marguerite*, by Eric Wetterlow. At the meeting on August 16 the discussion will be on perennials.

W. T.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Owing to the dry weather the exhibition on August 3 and 4 at Horticultural hall, was not so large as usual, although the displays were very beautiful, and there were fine exhibits of seasonable annuals and phlox. W. W. Rawson & Co., had a good display of dahlias. Owing to the popularity of the Sunday exhibitions, the society has decided to make them permanent features. Many old-home week visitors were in attendance.

NEW LONDON COUNTY HORTICULTURAL SOCIETY.

The exhibition at Norwich by this society, on July 30, was very successful, especially in the display of sweet peas, the collection of these flowers from the Morton F. Plant estate comprising 48 varieties. The same exhibitor staged herbaceous flowers. The gold medal contributed by Lyon & Ewald for the best exhibit of peas was presented to Thomas W. Head, superintendent of the Plant estate. Aug. Newman, gardener at the Alfred Mitchell estate also made a fine exhibit in various classes. The Geduldig estate, Mrs. W. C. Lanman and C. Lippit were represented by handsome exhibits of floral design work. There were some twenty other exhibitors mainly amateurs.

NEWPORT HORTICULTURAL SOCIETY.

The schedule of premiums for the September show of the Newport Horticultural Society is now in the printers' hands and will be ready for distribution in a few days. There are 77 classes in this schedule embracing plants, flowers, fruit and vegetables as well as many classes for made-up work including the decoration of tables with everything complete. There are quite a number of special prizes offered by friends of the society which include premiums for miniature flower gardens by Mr. Emery. Dahlias will be a prominent feature of this show. The exhibition will last three days and there will be some new attraction for each day.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting was held at the society's rooms on August 2. The display included choice orchids from Julius Roehrs Co. and Joseph A. Manda, the latter showing a new variety of *coelogyne*; *salpiglossis* and the new sweet william, Annwell, by C. Hathaway; peaches by John Crosby Brown, Peter Duff, gardener; grapes by the Colgates; zinnias and vegetables by Stewart Hartshorne; orchids and *rudbeckia* by S. Dickson. J. A. Manda, A. T. Caparn and Edwin Thomas were the judges. Mr. McTaggart of J. M. Thorburn & Co., was present and pledged \$10 in the name of the firm for a prize at the forthcoming show. Chas. Schweinfurth was also a visitor.

ST. LOUIS HORTICULTURAL SOCIETY.

The incorporators of this society in their petition for incorporation state that their aim is to conduct flower shows in St. Louis, to hold State exhibitions, establish a bureau of information and provide a lecture course on horticulture. The following are the officers: Edward Mullinckoodt, president; Otto G. Koenig, secretary; F. C. Weber, treasurer. Besides these the others mentioned in the application are Andrew Meyer, Jr., Fred H. Meinhardt, Theo. Miller, A. Jablonsky, Harry Young, Emil Schray, J. H. Gimalach and F. W. Brockmann.

AMERICAN ROSE SOCIETY.**Chicago and the West for 1908.**

A meeting of the Executive Committee of the American Rose Society was held Wednesday, July 24th, pursuant to notice, at Hotel Martinique, New York. All members, including the members elect, were notified and a general response to the call followed. The main business before the meeting were three particular things. A final decision was made as to the character of the certificates to be awarded for novelties in addition to the gold and silver medals now offered; specimens of certificates were presented and one was decided upon, which will be worth having and preserving, also a certificate for life membership. There is a life membership fund now invested, amounting to \$2700.

Mr. Breitmeyer suggested that a committee be appointed to solicit life memberships, because the Rose Society, to do the work which it can do in creating a popular sentiment for the rose and in interesting the planting and growing of the same, needs permanent endowment of sufficient amount to enable it to be an organization of vital and permanent force, and with this end in view, President Simpson, upon motion, appointed the following members to take up this matter of soliciting life members: Philip Breitmeyer, vice-pres. elect, of Detroit, Mich.; August Poehlmann, Morton Grove, Ill.; Patrick Welch, Boston, Mass.; P. J. Lynch, West Grove, Pa., and Adolph Farenwald, Roslyn, Pa.

Some Splendid Prizes.

Mr. Hill reported on behalf of the E. G. Hill Co., that they would offer a sum of \$50.00 in a prize of prizes, as the committee may designate for the Chicago Show next spring. Mr. Hill suggested, in view of the splendid offers of Philip Breitmeyer and A. T. Boddington, that they ought to bring out a fine lot of exhibits and suggested that an effort be made to secure an exhibition in pots, of all the novelties, European and others.

President Simpson advised that the attention of all rose growers, and especially private gardeners, be directed to the offer made by Mr. Breitmeyer and Mr. Boddington, the former offering \$200.00 and the latter \$100.00, as first and second prizes for best exhibit of outdoor roses in pots, in bloom, exhibits to consist of 150 plants, not more than five plants of one variety, correctly labelled, and to include all classes of roses suitable for outdoor planting.

The officers of the American Rose Society are very much gratified at being able to offer such splendid premiums and hope that a goodly number of growers may enter the list as competitors and that as a result we may have the finest display of outdoor roses in Chicago next March, that has ever been made before that Society. They also suggest that the Rambler roses be well represented in this exhibit, also the Teas and Hybrid Teas and Noisettes as well as the larger Hybrid Perpetuals.

Some Encouraging Communications.

Mr. Hill also reported that he was one of a committee at the annual meeting to attend the American Nurserymen's convention, which he did, and

presented as best he could, the claims of the American Rose Society to the nurserymen assembled and of this meeting he said: "I was very cordially received and was given a good hearing. I do not know what the result may be but hope some good may come from the effort. It occurs to me that no one thing will so direct attention to our society or will excite greater interest in the exhibition, than to give full prominence to seedling roses and special encouragement to the originators."

A letter was received from Mr. Schupp, secretary of the Chicago Florists Club, stating that he was directed by vote, to say that the Chicago Florists' Club desired to co-operate with the American Rose Society to the fullest extent, to make the coming exhibition a success.

Mr. Curran of Salem, Va., said: "I am heartily glad to hear that the Chicago Florists' Club is taking an interest in the society's welfare and know that if we can once get a good hold on the people out there, that the success of the American Rose Society is certain. I would like to suggest that the Rose Society make an effort to disseminate among its members, in pamphlet form, accurate illustrations concerning fertilizers, insecticides, fungicides and soil chemistry, which in my estimation, would create much interest among the present members and have a tendency to attract the younger generation of growers. We want to give the members of our society something more in the bill of fare than a good time at conventions and shows; offer them the greatest help in the knowledge which they ought to have and which is not to be attained in the every day grind of greenhouse work. The co-operation of employers of labor in the rose-growing business is absolutely necessary to the advancement of their help towards obtaining a scientific knowledge of proper conditions governing the management and controlling of greenhouse work."

Mr. May stated that this suggestion was along the line which was offered at the annual meeting, that the Rose Society ought to have a quarterly publication.

Getting Ready for Chicago.

The schedule of prizes for next year was gone over and it was decided to adopt the schedule used at the Washington show. The list of special prizes has already been started with a considerable amount. It was proposed to call a meeting of the Rose Society to be held during the S. A. F. convention at Philadelphia next month.

The committee voted to direct the secretary to prepare and publish a report of the society and to circulate the same to all members. Mr. Farenwald moved that the secretary be directed to express to the Chicago Florists' Club, the thanks of the executive committee for their promise to co-operate and that east and west, north and south do their best to make the show first-class next spring and, in the mean time, every effort should be made to secure as many annual and life members as possible.

Mr. Hill reported that he understood that Alex. Montgomery, Alex. Scott, Peter Reinberg, Peter Bisset, Poehlmann Bros., Myers & Samtman, F. H. Kramer and the E. G. Hill Co., will

all have new roses to exhibit, and stated that the appearance of so many new varieties will, if properly advertised, add interest enough to bring out a big attendance at Chicago.

President Simpson said that he would leave for Europe on the last of the month and would not be present at Philadelphia; that he expected, while away, to visit some of the best establishments in England, Scotland and Ireland, and hoped to bring back with him some matters which would be of importance to all interested in the rose.

BENJAMIN HAMMOND, Secretary.

Special Meeting at S. A. F. Convention.

It is desirable that a meeting of the members of the American Rose Society and all who are interested in the rose and particularly such as are specially interested in the 1908 meeting in Chicago, be arranged for during the S. A. F. week in Philadelphia.

The eastern growers will there have an opportunity of meeting many of the western growers, and can perfect arrangements for the convention and exhibition much more readily than can be done by correspondence. I would strongly urge upon the rose growers who may be in Philadelphia, the importance of arranging to attend this meeting and lending their influence and assistance, moral and material to make the 1908 meeting by far the best in the history of the American Rose Society.

Our Secretary, Mr. Hammond, will be in attendance at the S. A. F. Convention and will arrange for the time and place of the rose meeting, and announce the same in due course. I regret that I will not be able to be present, but Vice-president elect, Mr. Breitmeyer, will be present and will preside over the meeting.

ROBERT SIMPSON,

Pres. A. R. S.

AMERICAN CARNATION SOCIETY.**Carnations Registered.**

By W. N. Rudd, Mt. Greenwood, Ill. "Defiance." Color bright (so-called) scarlet, size easily grown two and three quarter inches, stem long and stiff, habit upright with no superfluous grass, breaking quickly and strong when topped; growth strong and clean with no tendency to disease; foliage medium wide with heavy bloom and good blue color. Origin, cross between Estelle on a seedling, having Argyle, Mrs. McBurney and Maceo blood, cross made 1902. An early, free and continuous bloomer believed to be a first class commercial scarlet.

"Sincerity." Color deep Daybreak shade, hot sun deepens instead of fading color; size easily three inches; stem like that of Enchantress long and reasonably stiff; habit fairly upright with little superfluous grass, growth strong and clean; foliage medium wide, blue green with medium bloom. Origin cross of 1904, two seedlings running back through many generations to Daybreak and Wm. Scott. An early, free and continuous bloomer which by reason of its color and good shipping qualities should take a place as a standard commercial sort; can be grown to exhibition standard.

ALBERT M. HERR.

Lancaster, Pa.

S. A. F. CONVENTION PRELIMINARY NOTES.

RAILROAD RATES TO PHILADELPHIA CONVENTION.

Members are advised that the Trunk Line Association, in whose territory Philadelphia, our meeting place, is located, has granted a special rate of one and one-third fare on the certificate plan.

This rate has been concurred in by the New England Pass. Ass'n., Geo. H. Watson, secretary; South Eastern Pass. Ass'n., Joseph Richardson, chairman; Eastern Canadian Pass. Ass'n., G. H. Webster, secretary.

Instructions for Members Who Live in Territory of Central Passenger Association.

Members are advised that The Central Passenger Association will not join in the reduced rate of a fare and one-third, for the reason that a number of States have provided by law for a standard rate of two cents per mile, particularly in the territories covered by this association. It has, however, made a special concession to our society in that it will sell a round-trip ticket to Philadelphia at the rate of two cents per mile in the territory covered by this association, and at the reduced rate of a fare and one-third through the territory covered by the Eastern, Canadian and Trunk Line Associations. This special concession is only for those attending the session and not for the general public. These special tickets can be obtained only on card orders secured direct from P. J. Hauswirth, Secretary, 232 Michigan Ave., Chicago, Ill. The Central Passenger Association has furnished the Secretary with these card orders, and should you reside in the territory covered by the Central Passenger Association, which includes practically all points between Chicago and St. Louis on the west and Buffalo and Pittsburg on the east, and desire to take advantage of this special concession you must obtain from the secretary a card order.

In writing for card orders be sure to give the number required as each person must have one.

Instructions for Members Living in Territory of Western Passenger Association.

The following letter has been received from Mr. Eben E. MacLeod, Chairman of the Western Passenger Association, which controls territory west of Chicago and St. Louis:

"Mr. P. J. Hauswirth, 232 Michigan Ave., Chicago, Ill.

"Dear Sir: Referring to your application for reduced fares account above named occasion:

"We have been requested by the individual lines interested in Western Passenger Association territory to refer you to the revised one-way Summer Tourist fares in effect to Chicago and St. Louis, with the understanding that persons can repurchase from those points and take advantage of the reduced fares authorized therefrom.

"In order that you may fully understand the situation, beg to state that the fares to Chicago, Peoria and St. Louis from a large part of our territory at the time of your meeting will be on the basis of two cents per mile, hence if persons desiring to attend same will purchase tickets to those points and then rebuy at the reduced fares authorized therefrom, they will secure practically the same reduction in the territory of this Association as would be accorded

by fare and one-third on the basis of the old rates. Summer tourist tickets will be on sale to Chicago and St. Louis from points west of the Missouri River and east of and including Denver, Colo., and Cheyenne, Wyo., at approximately fare and one-third of the fares in effect February 1, 1907. These fares will no doubt satisfactorily take care of persons desiring to attend your meeting from the territory mentioned.

"Respectfully,

"EBEN E. MacLEOD, Chairman"

P. S.—"It is suggested that the delegates residing in Western Passenger Association territory be furnished with Central Passenger Association card orders, so as to enable them to take advantage of the reduced fares authorized from Chicago, Peoria and St. Louis.

E. E. M."

The secretary recommends that members living in this territory purchase Summer Tourist tickets to Chicago or St. Louis, and then avail themselves of the rates mentioned above as offered by the Central Passenger Association.

Jamestown Exposition Rates.

Members are notified that they can purchase cheap railroad tickets which will permit them to attend the convention at Philadelphia and then visit the Jamestown Exposition at Norfolk, Va., on the route home at very low rates.

Full information can be secured from your local ticket agent.

P. J. HAUSWIRTH,
Secretary.

CHICAGO TO PHILADELPHIA.

The Chicago Florists' Club, and the visitors who can join them either at Chicago or on the way, plan to use the following route, Pennsylvania Railroad.

Leave Chicago Sunday, 3.15 p. m., arrive Philadelphia Monday, 6.10 p. m. The fare, including trip to New York City, is \$26.70 for the round trip. These tickets are good for 30 days. They are entitled to 10 days stop over in Philadelphia after which the delegates must go to New York and have their tickets vised there and certified to by C. A. Thorley, a member of the New York Merchants Association.

Delegates can then return if they desire via Washington, where they may stop over ten days, making a side trip to Norfolk, or they can return direct to their destination in the west.

Delayed members who cannot take the above train can leave Chicago at 10.05 Monday a. m. via Pan Handle and arrive Philadelphia 12.17 Tuesday noon. Fare by the Pan Handle is \$2.00 less than the above, or \$24.70.

For further information address George Asmus, 797 W. Madison St., Chicago.

W. N. RUDD,
GEORGE ASMUS,

Transportation Committee, Chicago Florists' Club.

NEW YORK TO PHILADELPHIA.

Arrangements have been made for the Convention party to leave New York, via the Pennsylvania Railroad at 9.55 A. M. from West 23rd Street and 10.00 A. M. from Desbrosses & Cortlandt Streets, New York City. Tuesday, August 20th, and those desiring to attend should communicate with John Young, secretary of the N. Y. Florists'

Club, 51 West 58th Street, in order that special cars may be secured.

The dates of sales will be August 15th to 21st inclusive, tickets to bear final return limit of August 28th, 1907, the cost of round trip, on the certificate plan, being \$3.00.

ST. LOUIS TO PHILADELPHIA.

Regarding the number who will attend the S. A. F. Convention at Philadelphia from here W. C. Young, State Vice-president, says that he has enough promises to fill the special sleeper that the Penna. R. R. has given us for our special use. The Florists' Club meeting this week will no doubt bring in attendance all that are going from here. It is also expected that by the time for leaving quite a good many from outside the city will travel with our party. One thing seems certain, that St. Louis will not be represented in either the bowling or shooting contests.

FLORISTS' CLUB OF PHILADELPHIA.

Routine matters were quickly disposed of at the monthly meeting of this club held on the 6th inst. Convention details and a talk on native plants by George Redles were the chief features. After these, president Samuel Sellers Pennock resigned the chair to the Honorable William B. Smith who acted as master of ceremonies in an evening of fun, frolic and business. The business part was an exhibition—and competition for prizes—of the new Nephrolepis Amerpohli. About nine entries were made and the first prize went deservedly to William Robertson for a finely developed trio. William Kleinheinz took second and Thomas Long third. Joseph Hurley showed some fine zinnias.

An original song by Robert Craig, Jr., was ably sung by Horace Dumont and a well trained chorus. William Wunder gave some of his whirlwind orations and kept the house in a roar half the evening. Edward J. Dooner supplied the plaintive and appealing with his lovely tenor in such things as "Kilkenny" and "Oft in the stilly Night." Captain Lynch, Alfred M. Campbell and Charles O'Donnell, added their quota in acceptable form. Martin Gagnon presided at the piano. Refreshments were dispensed during the evening. Robert Craig, Sr., John Nephrolepis Amerpohli. About nine P. Craig, Dan. Farson, and others of lesser degree attempted to make speeches and made a fine target for the effervescent toast master. Altogether it was a grand evening. G. C. W.

AMERICAN CARNATION SOCIETY.

A meeting of the Board of Directors of The American Carnation Society will be held at the Hotel Walton, Philadelphia, Pa., Thursday, August 22, immediately after the adjournment of the evening session of the S. A. F.

Programme and premium list for our meeting in Washington next January will be adopted and all members are invited to meet with us.

Try and get a few new members from your section. Dues the first

SOCIETY OF AMERICAN FLORISTS

YOU ARE INVITED to visit us during convention week, any day at your convenience.

ANDORRA presents a unique Nursery—six hundred acres of hilly land, containing over three hundred and fifty acres of **Ornamental Trees, Shrubs, Vines, and Perennials.** Our **Location** permits us to grow many varieties both in deciduous and evergreen trees and shrubs that cannot be grown to advantage North or South of this latitude, and thus adds to our extensive collection many desirable and decorative plants.

ANDORRA has been called **The Modern Landscape Nursery.** The lay-out of our land, with its hills, valleys and woodland, permits the planting of trees and shrubs in natural positions, thus affording planting suggestions at every turn.

ANDORRA is easily and quickly reached from the Convention (Horticultural) Hall by the Pennsylvania Railroad from Broad St. Station (at Broad and Market Sts.) to Chestnut Hill Station; then by trolley, which passes the depot, to the City Line. Our office is one block from the trolley terminus at the City Line.

REMEMBER, this is a personal invitation to **YOU.**

A Few Penna. R. R. Trains.

Leave Broad St.		L'Ve Ch'tnut Hill	
A.M.	P.M.	A.M.	P.M.
7.25	9.25	10.15	1.15
7.55	10.25	11.15	2.15
8.25	12.25	12.15	3.15

Trains each way every half hour.

WM. WARNER HARPER, Prop. of

ANDORRA NURSERIES

Bell Telephone
CHESTNUT HILL 225

CHESTNUT HILL, PA.

year \$3.00, afterward \$2.00 per year. Send money and name to the Secretary.

FRED LEMON, President.

ALBERT M. HERR,
Secretary, Lancaster, Pa.

MASSACHUSETTS AGRICULTURAL COLLEGE.

Summer School of Agriculture.

The summer school of agriculture conducted for the benefit of school teachers at Massachusetts Agricultural College this year closed Friday noon, August 2. It was unanimously voted a success. The total attendance was 212, nearly all of whom completed the entire term, and 184 of whom received certificates for courses completed. The students of the school formed themselves into a permanent organization and elected Supt. Chas. W. Haley of Milford, Mass., president. Enthusiastic resolutions of praise for the summer school and the Agricultural College were adopted, and the association pledged its support in all the future development of the college.

Careful inquiry reveals the fact that practically every one of the teachers is engaged for the year, so that the new ideas which have been developed in the summer school courses will be quickly distributed to more than a hundred and fifty schools in all parts of the country.

This is the first summer school ever held at Massachusetts Agricultural College, but the success of the experiment insures the continuance of the work. The official announcement that there would be another summer school next year met with great favor amongst the teachers. About one-third the entire number registered for next year before leaving.

You will find something worth reading on every page of HORTICULTURE.

During Recess

*"Hang Sorrow; care will kill a cat
And therefore let's be merry."*

SLOGAN.

Messrs. Graham, Cartledge and Beneke; members of the National sports committee; the three men to whom we have intrusted all that is historic, sacred, and glorious in the annals of past achievement:

Gentlemen:—

What are you doing? We hear not a word from New York, Chicago, Boston, St. Louis, Buffalo, Detroit, Flatbush or Kalamazoo. A faint ripple appears in the calm waters of Philadelphia but outside all is deadly still. Do you, our three champions, advance agents, realize the situation? Is there to be no fun after the arduous mental sessions of the Society? Have you written to the bowlers and shooters of every club in the country to get busy? Printing your name on the committee list isn't all! As the commodore has said many a time: "To keep school first get the scholars." Lots of young

and frivolous ones come to the convention only to bowl. It is up to you to get them to Philadelphia and they are dumb indeed if they don't carry away something. G. C. W.

CLUB AND SOCIETY NOTES.

The New Haven Horticultural Society entertained the members of the Hartford and New Britain societies on August 1. A tour of the parks was made, a shore dinner was served at Savin Rock and the entertainments at the shore enjoyed until evening.

The Apple Growers' Congress will hold its annual meeting in St. Louis on August 13 and 14 at the Southern Hotel. Senator Dunlop of Illinois is President and W. H. Williams of Hannibal, Mo., is secretary. A large delegation of apple growers from all over the western states is expected to attend the meeting. Director Trelease of the Missouri Botanical Garden has invited the delegates to attend the annual Shaw banquet to be given on Wednesday night, August 14, in the banquet rooms of the Southern Hotel, at which plates for 400 will be laid.

A CORDIAL WELCOME

is tendered to all attending the Annual Convention of the S. A. F., to be held in Philadelphia, August 19-23. Our extensive, up-to-date establishment will give you a place to meet your acquaintances. We will have a number of interesting things to show you. Have your mail addressed in our care while in Philadelphia.

We've a Handsome Souvenir Waiting for You.

HENRY F. MICHELL CO.

1018 Market Street, PHILADELPHIA

Seed Trade

Still another week of favorable weather for crops, and corn has responded nobly. Eight or ten weeks more of such weather and we shall get a corn crop. But shall we get such weather for eight or ten weeks? Who dares say yes?

Estimates as to percentages which will be delivered of the present season's pea crop are a trifle previous, but there will be a heavy shortage in canners' varieties, as nearly every grower was oversold, and the same may be said of the large podded sorts, such as Gradus, Stratagem, Duke of Albany, Telephone, etc.

This tendency to oversell is very general, and is mainly due to estimating the yields too high. It is the almost universal practice to estimate plantings of nearly every variety of peas at not less than five-fold; a few varieties at six and seven and not above two or three under five-fold. This standard was established many years ago, and doubtless was the normal average yield at the time, but two important factors seem to be overlooked in estimating yields of peas; one is the soil and another is the relative vigor of the variety. A new variety of great vigor and hardiness, and with a strong soil just suited to peas, and virgin to this crop, may yield seven or eight-fold, but in a few years the variety begins to lose its vitality and the soil becomes impoverished in the elements necessary to produce peas or any leguminous crop, and the yield decreases. Failures become frequent, and as the variety declines in vigor, the tendency to depart from its true type increases, until it "runs out" and becomes a sort of "mongrel." The same conditions obtain throughout the vegetable world, though deterioration in peas may develop more readily than in many other families of plants.

In estimating the yields from his plantings, the grower fails to take into account this deterioration as a rule, neither does he make due allowance for deterioration in the soil, and the result is that, instead of harvesting crops averaging five and six-fold, he much more often gets only three and four.

The principal seed pea growers have been interviewed on this point, and they are unanimous in declaring that not oftener than once in five or six years have they had an average of five-fold from their entire plantings. Notwithstanding this fact, they year after year base their prices on a five-fold yield, and judging by this standard, one might think many of them expected ten-fold!

Taking five-fold, however, as the generally accepted standard, it is easily seen that where the price is based on this fold, and it proves to be the only three or four, as is positively the case four years out of five, the grower loses twenty to forty percent of his expected crop, and instead of a profit, he works for a year practically for nothing, and sometimes even suffers a more or less heavy loss. Whatever fold he gets from his acreage one fold must be reserved for seed. Thus if he gets five-fold, he has four-fold to deliver on his contract. If he gets four-fold, he has three to deliver, and if he gets three-fold, he has but two to deliver.

Assuming Alaskas cost him \$2.00, and they will not cost much less, if he gives them the care they should have, and also takes account of the wear and tear of his plant and machinery, he can sell them at \$2.25 making a profit of 25c per bushel on a five-fold yield, but if his crop is only four-fold, he just about breaks even, while anything under four-fold means positive loss, and this loss is in proportion to the shrinkage of the crop below four-fold.

These are not imaginary figures or estimates, but are based on facts, and explain why so many growers of peas and beans who have sold hundreds of thousands of bushels in the aggregate, have so little to show for their life's work, and almost without exception they are temperate, frugal men. How long they will continue as they have been doing for at least the lifetime of two generations of growers, can only be conjectured, but it is mainly a test of financial endurance, those with the largest financial resources and relatively smallest expenses enduring the longest.

Why do not the principal growers who should be fully alive to the facts here stated, recast their schedule of prices, and base them upon actual results, and not upon yearly estimates which seldom meet expectations? Certain it is that none of them are making much profit from their business, and as time goes on they will make less instead of more, as deterioration in both seed and soil will continue.

THE LILY BULB OUTLOOK.

Reports come to hand from Japan to the effect that the plant-louse has caused fatal injury to the Japan longiflorum and multiflorum lilies in Bashu and Miura districts, the estimated loss on bulbs being 40 per cent. From the Azores we are informed of a considerable shrinkage in quality due to the long-continued dry weather of the past six months, which has unfavorably affected lilies, callas and other similar crops. The supply is up to expectations but the bulbs are undersized.

Large sized giganteums are decidedly scarce in all markets.

CATALOGUES RECEIVED.

Southworth Brothers, Beverly, Mass.—Trade list of pines, firs, spruces, arbor-vitae, etc.

Wm. Baylor Hartland & Sons, Ard-Cairn, Cork, Ireland; Catalogue of Daffodils and Rare Tulips.

Mohican Peony Gardens, Sinking Springs, Pa.—Descriptive list of one hundred best varieties of peonies.

L. Boehmer & Co., Yokohama, Japan.

PLANT STAKES CANE STAKES

Long selected stock, thin and wiry, very strong.

Southern... 8 to 9 ft. 75c. \$6.00 per 1000 \$25.00
Japanese... 6 to 7 ft. 75c. 5.50 25.00

STEEL STAKES

No. 10 Steel Wire Galvanized

per 100		per 1000		per 1000	
2 ft.	\$.45	\$4.08	4 1/2 ft.	\$1.00	\$9.20
2 1/2 "	\$.55	5.17	5 "	1.12	10.23
3 "	\$.65	6.15	6 "	1.30	12.25
3 1/2 "	\$.78	7.18	6 1/2 "	1.40	13.28
4 "	\$.88	8.16			

No. 8 Steel Wire Galvanized

For Staking American Beauty and other strong and tall growing Roses.

per 100		per 1000		per 100	
2 ft.	\$.55	\$5.25	4 ft.	\$1.10	\$10.00
2 1/2 "	\$.70	6.50	4 1/2 "	1.25	11.50
3 "	\$.80	7.50	5 "	1.40	13.00
3 1/2 "	\$.95	9.00	6 "	1.60	15.50

MICHELL'S RELIABLE HOSE

Made expressly for hard usage.
Ask most any florist about it.

3 Ply per foot 12c. 4 Ply per foot 14 1/2 c.

Our Advance Price List of Bulbs is Ready.

HENRY F. MICHELL CO.

1018 Market Street
PHILADELPHIA - PA.

Christmas Flowering Sweet Pea Seed

DIRECT FROM ORIGINATOR.

Christmas Pink, Florence Denzer, white 1-4 lb
75c. 1 lb. \$2.00.

Mrs. E. Wild, new Carmine red, 2 oz. 75c. 1-4 lb.
\$1.50.

These popular Florists' Sweet Peas have been grown by

OVER 3000 FLORIST

all over the world to the best satisfaction of the most critical growers, and

HAVE NO EQUAL.

Also 10 New Varieties offered for the first time, Salmon, Pink, Blue Purple, Yellow and Variegated in separate colors.

Ask for Descriptive Price List. These new varieties will be ready in September. Sweet pea Directions with every order.

ANT. C. ZVOLANEK Bound Brook, NEW JERSEY

CABBAGE PLANTS

Early and Late Flat Dutch, Succession and Savoy \$1.00 per 1000, 10,000 and over 80c. per 1000.

CELERY, Golden Self Blanching, Giant Pascal, White Plume, Winter Queen, Golden Heart, \$1.00 per 1000, 10,000 and over 80c. per 1000.

Borecole, Brussels Sprouts, Leek, \$1.00 per 1000. Lettuce, Grand Rapids, Boston Market, Defiance, \$1.00 per 1000. Moss Curled Parsley \$1.00 per 1000.

My Plants are Fine. Cash with order, please. SAMUEL W. SHANKLIN, WHITE MARSH, MD.

CELERY PLANTS

100,000 WHITE PLUME

All Transplanted plants. Many rootlets. Unlike those grown in the ordinary way. None better.

500, \$1.50; 1000, \$2.50; 5000 or over \$2.00 per 1000. Cash with Order

W. B. DU RIE, Rahway, N. J.

Wholesale catalogue of Japanese lily bulbs, flower roots, seeds and nursery stock. Alfred Unger, proprietor. This is the "Jubilee Year" of this establishment, founded in 1882 and the catalogue is appropriately complete.

CLAY'S Fertilizer

56 lbs. \$3.25

112 lbs. \$5.50

Wm. Elliott & Sons
201 Fulton Street
NEW YORK

JOHNSON'S PRIZE WINNER PANSIES From the World's Famous Growers

"JOHNSON'S KINGLY PRIZE WINNER PANSIES are the product of the world's leading Pansy Specialists, and absolutely unsurpassed in quality by any strain extant. We offer seed as follows: 1000 seeds 30c.; 2000 seeds 50c.; 5000 seeds \$1; ¼ oz. \$1.25; 1 oz. \$5.

Now ready—Paper White Narcissus, Roman Hyacinths, Bermuda Harrisii, Freesias, New crop Pansy Seed, Cineraria, Calceolaria, Cyclamen, Primulas and other Seasonable Flower Seeds.

OUR NEW FALL BULB CATALOGUE WILL BE MAILED ON REQUEST

JOHNSON SEED COMPANY, 217 Market Street, PHILADELPHIA PA.

ZIRNGIEBEL'S GIANT PANSIES

Fresh Crop

Now Ready

Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNGIEBEL. None genuine unless sold by me.

AUGUSTUS ZIRNGIEBEL, Needham, Mass.

GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.

GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

ALL GIANTS are used in mixing our PANSY SEED

"BODDINGTON'S CHALLENGE" mixture contains all the finest Giant strains—of the leading Pansy Specialists in the world—the Giant self colors, the Giant striped and margined, and the Giant blotched—all carefully mixed in proportion—the finest that money can buy—the finest your money can buy. A florist who has grown it, said "Why don't you call it Defiance!"

Trade pkt, 75c, 1-4 oz. \$1.50, 1-2 oz. \$2.75, oz. \$5.00. New crop ready July.

... Order Now ...

A. T. BODDINGTON, 342 W. 14th St., N.Y. City

PANSY SEED

Giant Variety D' Elite	Per Oz. \$10.00
" All colors, for Florists	5 00
" Good Mixed, per lb. \$20.00 ..	2 00
Mme. Perret, rue Gold Medal	5 00

The best for Cut Flowers

BEAULIEU'S HARDY WHITE

ONION Per lb \$3.00

LETTUCE for forcing and out door variety D' ELITE, CABBAGE, CELERY GREEN and YELLOW, etc. Free Sample on Application.

BEAULIEU, Seedsman

WOODHAVEN, L. I., N. Y.

PANSY SEED

In separate colors

and the finest mixture,

embracing every conceivable shade and marking and largest flowers. Crop of 1907.

Get descriptive Price-List

FRANCIS BRILL, HEMPSTEAD, (L. I.) N. Y.

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

Vick's Superb Pansy Seed

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 85c 1-4 oz. \$1.60 Ounce \$6.00

JAMES VICK'S SONS, Rochester, N. Y.

High Grade Seeds for

Market Gardener, Florist and Farmer

Catalogues Free

Joseph Breck & Sons Corp.

47-54 NO. MARKET ST., BOSTON, MASS

BERMUDA GROWN LILIUM HARRISII

AND FREESIA BULBS

PURITY FREESIA BULBS

ready for Delivery

H.E. Fiske Seed Co., 12 & 13 Faneuil

BOSTON, MASS.

BRASLAN SEED GROWERS CO.

GROWERS FOR THE

WHOLESALE TRADE ONLY

SAN JOSE, - - CALIFORNIA

C. C. MORSE & CO.

Address all communications to our permanent address

48 to 56 Jackson St., San Francisco, Cal.

The Largest Seed Growers in the United States

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

CAULIFLOWERS SEED CABBAGE ED

HJALMAR HARTMANN & CO.,

12 Stormgade, COPENHAGEN, DENMARK.

TO THE TRADE

READY NOW

BEGONIA Gloire de Lorraine

Plants from 2½ in. pots

\$15.00 per 100

\$140.00 per 1000

R. & J. FARQUHAR & CO.,

6 and 7 So. Market St., BOSTON.

ESTABLISHED 1802

Thorburn's Seeds

Trade Bulb List now ready. PER 1000 SEEDS
Asparagus plumosus nanus seeds..... \$2.25
Asparagus plumosus robustus seeds.... 2.50
New crop Giant Cyclamen seed.

Cold storage Lily of the Valley pips, best possible grade, in cases of 1,000 and 3,000 pips each, at \$12.00 per 1,000.

BERMUDA EASTER LILIES, ROMAN HYACINTHS AND ALL HOLLAND AND OTHER BULBS
SEND FOR PRICES

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place

NEW YORK

Everything of the Highest Grade

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY CO.

32 & 33 So. Market St., BOSTON

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**When You Attend the Convention of the S. A. F.
in Philadelphia**

Come to Wyncote and see our KENTIAS

25 Minutes Ride, Reading Railroad

100 Trains Daily

JOSEPH HEACOCK COMPANY, - WYNCOTE, PA.

BAMBOO CANES TOUGH AND STRONG

6ft long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more
than other kinds, and they are 10
times better.

STUMPP & WALTER CO. - 50 Barclay St., New York

LET US QUOTE

on your wants in Callas, Paper White
Grand, Narcissi, 13 cm. up. All Dutch
Bulbs, Wood Moss.

**D. RUSCONI, 32 West Sixth Street
CINCINNATI, OHIO**

150,000 CELERY PLANTS

All White Plume, good strong transplanted
plants in flats or otherwise, \$3.00 per 1000.
Asparagus Sprengerii from 3 1-2 in. pots,
\$6.00 per 100.

MOREL BROS.

62 E. Market St., SCRANTON, PA.

SMILAX PLANTS

Fine strong stock

Out of 2 in. pots. \$2 per 100, \$18 per 1000

J. B. HEISS

112 S. MAIN STREET

DAYTON OHIO

... ORCHIDS ...

Just to hand, C. Trianae, C. labiata, C. Mossiae, C.
Intermedia, C. Schroderae, C. speciosissima, C. Cit-
rina, C. Gaskelliana, Laelia anceps, L. Albida, L.
majalis, L. Autumnalis, Epidendrum Vittelinum maj-
us, E. Cooperianum, Oncidium Crispum, O. varicosum,
O. Cavendishianum, O. Luridum, Odonto Citrosomum.
To arrive in a short time, C. Dowiana, C. Aurea, C.
Warneri, Miltonia Vexillaria.

GARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS

Imported, semi-established, established and
seedlings.

Catalogue sent on application

J. ROEHRS CO., RUTHERFORD, N. J.

CANNAS

Be sure to see our display
at the S. A. F. Convention

**The CONARD & JONES CO.
WEST GROVE, PA.**

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

**Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY**

Just Arrived in Fine Condition

ORCHIDS

In Variety

Cattleyas, Laellias, Oncidiums, Odonto-
glossum, Epidendrum, etc.

WRITE FOR PRICES.

JOSEPH A. MANDA, Orchid Expert, West Orange, N. J.

JUST ARRIVED JUST ARRIVED
Cattleyas Percivalliana, Sanderac and
Speciosissima, Oncidium Kramer-
ianum and Gaskelliana.

Write for prices or telephone to

**ORDONEZ BROS.
MADISON, N. J.**

P. O. Box 105.

Phone 143 Madison.

Just arrived in superb condition:

Cattleya Percivalliana, Cattleya labiata,
Cattleya Schroderae, Oncidium varicosum
Rogersii, O. Crispum, O. Marshallianum,
O. luridum, Miltonia Cuneata, M. Candida,
M. Clowesii, Laelia Crispata, L. Dayana, L.
Praestans, etc. Write for prices.

LAGER & HURRELL, Summit, N. J.

JAPANESE
THE YOKOHAMA NURSERY CO. NEW YORK.
31 BARCLAY STR.
LILIES
PLANTS
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PREPARE FOR CHRISTMAS

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Lilium Speciosum Rubrum	Per 100	Per 1000	Lilium Speciosum Melpomene	Per 100	Per 1000
8 to 9 inch bulbs, 200 in case	8.00	75.00	8 to 9 inch bulbs, 200 in case	9.00	80.00
9 to 11 inch bulbs, 150 in case	12.50	110.00	9 to 11 inch bulbs, 150 in case	12.00	115.00

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" " 9 " "	\$10.00	\$90.00
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" " 6 " "	7.00	60.00
" " " "	5.50	45.00
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Foster, 4 in. pots, \$2.00 per doz.; 3
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\$2.00 per doz.

FERNS, assorted varieties, 3 in.
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Seedlings, \$2.00 per 100.

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† Mrs. Jardine was raised by Messrs. Alexander Dickson & Sons of Newtownards, and is in the same class for winter forcing as their previous introductions—Liberty and Killarney.

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Zieger Co., Pittsburgh, Pa.; capital stock, \$30,000; E. J. F. Zeiger, R. B. Brown and J. T. Brown, Jr., incorporators.

MOVEMENTS OF GARDENERS.

John Barron recently employed at Norwich, Conn., has succeeded Michael Adams as gardener to Col DeLancey Kane at Newport. Wm. Anderson has taken the place of his late brother Alex. Anderson on the estate of Mrs. T. J. Emery in Middletown, R. I.

According to The Garden, Manda's handsome Wichuraiana Hybrid rose Gardenia has made a good record in England and is popular as a wall or pillar rose.

FOR SALE

200 Lady Gay 200 Dorothy Perkins
200 Crimson Ramblers

Nice Stock in 2½ inch pots, ready for 3½ inch
\$10.00 per hundred

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Green and Yellow, out of 2 1-2 in. pots,
clean stock, \$3 per 100, \$25 per 1000.

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News Notes

Albert Miller has accepted a position with A. G. Lindquist, Woburn, Mass.

The Arverne Floral Parade Association, Arverne, N. J., will hold their floral fete on August 31 and September 2.

Charles Finnacom of Dracut, Mass., was given a birthday and surprise party on July 27 and presented with a gold ring.

The officers of the newly organized Joliet Nurseries Co., Joliet, Ill., are J. H. Ferris, president, C. T. Shepherd, Jr., sec., Col. Bennit, treas.

J. E. Schaefer, florist at the Rhode Island College, Kingston, will resign his position on September 15, to enter upon duties in New Jersey.

Dreamwood, Thomas W. Lawson's farm at Scituate, Mass., boasts fourteen miles of Crimson Rambler roses, literally enclosing the grounds.

Bozeman, Montana, will hold a sweet pea carnival on August 22. The improved appearance of the lawns, gardens and street fronts, since the carnival of last year, promises to make this an annual feature.

At a meeting of the State Entomological Commission of Kansas held at Topeka on July 22 it was decided that all nurseries in the State shall be inspected between June 1 and November 15 and if found free of injurious insects shall receive a certificate. Without this certificate nursery stock cannot be sold in the State. Notice to this effect will be sent to all transportation companies.

"A Salem paper says that strawberries have been so plentiful in Danvers and Peabody that farmers have been glad to get rid of them at four cents a basket. If this is the fact, the question is who sidetracked those strawberries on the way to Boston."—Boston Transcript.

BETWEEN YOU AND ME, What do you think of the Buyers' Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

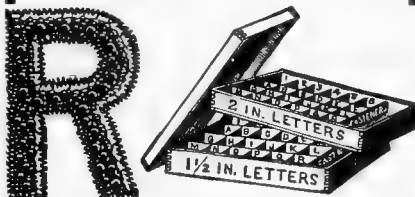
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	CHICAGO August 6		TWIN CITIES August 6		PHILA. August 5		BOSTON August 8	
ROSES								
Am. Beauty, Fan. & Sp.	20.00	to 35.00	20.00	to 30.00	20.00	to 25.00	15.00	to 25.00
" Extra.....	15.00	to 18.00	12.50	to 17.00	15.00	to 18.00	10.00	to 12.00
" No. 1.....	10.00	to 12.00	10.00	to	8.00	to 12.00	6.00	to 8.00
" Lower grades.....	4.00	to 6.00	3.00	to 5.00	3.00	to 5.00	.50	to 3.00
Bride, 'Maid, Golden Gate, F. & S. .	5.00	to 8.00	4.00	to 6.00	5.00	to 6.00	3.00	to 4.00
" " " Extra.....	3.00	to 4.00	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00
" " " No. 1 & lw. gr. .	1.00	to 2.00	2.00	to 3.00	1.00	to 2.00	.50	to 1.00
Liberty, Richmond, Fan. & Sp.	6.00	to 8.00	4.00	to 6.00	5.00	to 6.00	3.00	to 4.00
" Lower grades.....	2.00	to 4.00	3.00	to 4.00	1.00	to 3.00	.50	to 2.00
Chatenay, Morgan, Fan. & Sp.	5.00	to 6.00	4.00	to 6.00	5.00	to 6.00	2.00	to 3.00
" Lower grades.....	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00	.50	to 1.00
Kaiserin, Carnot, Fan. & Sp.	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	3.00	to 5.00
" Lower grades.....	2.00	to 4.00	3.00	to 4.00	2.00	to 5.00	1.00	to 2.00
Killarney, Wellesley, Fan. & Sp. .	5.00	to 6.00	4.00	to 6.00	5.00	to 6.00	3.00	to 4.00
" Lower grades.....	2.00	to 3.00	3.00	to 4.00	1.00	to 3.00	.50	to 2.00
CARNATIONS								
Fancy and Novelties.....	1.50	to 2.00	1.50	to 2.00	2.00	to 2.50	1.00	to 1.50
Ordinary.....	.75	to 1.00	.75	to 1.00	1.00	to 1.50	.50	to .75
MISCELLANEOUS								
Sweet Peas.....	.25	to .75	.50	to .....	.20	to .50	.10	to .20
Cattleyas.....	35.00	to 60.00	35.00	to 60.00	60.00	to	35.00	to 60.00
Lilies.....	10.00	to 12.00	10.00	to 12.00	10.00	to 12.00	6.00	to 8.00
Lily of the Valley.....	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Asters.....	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	.50	to .75
Gladioli.....	2.00	to 6.00	2.00	to 6.00	1.00	to 5.00	1.00	to 4.00
Adiantum.....	.75	to 1.50	.75	to 1.00	1.00	to 1.50	.50	to 1.50
Smilax.....	10.00	to 15.00	12.00	to 15.00	10.00	to 15.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	35.00	to 50.00	35.00	to 50.00	to 50.00
" " & Spreng. (100 bchs.)	25.00	to 50.00	35.00	to 50.00	35.00	to 50.00	25.00	to 50.00

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FLOWER MARKET REPORTS

BOSTON A few banquets took place during "Old Home Week," but the call for flowers for these affairs made no appreciable impression on the flower trade and those who looked for a pronounced demand during that period were doomed to disappointment. There is a vast amount of small and almost valueless roses coming in at present; carnations are almost out of the running; sweet peas are over stocked badly and bring but very little return; lily of the valley which hung fire for some time past has begun to strengthen; Shakespeare gladioli is a good seller at present; asters are more abundant and rapidly falling in value. This about covers the ground so far as the staple market flowers are concerned.

BUFFALO Business for the past week was as good as could be expected, and at the end of the week a good clearing up was had on everything save green goods. Asters have not come in very plentifully therefore the carnations such as there are, are picked up quickly. Lilies have sold well, the supply being normal and quality fine and have been a great help for those who were fortunate enough to have floral design orders. Peas have shortened in supply and sell more rapidly than in previous weeks. Lily of the valley has been on the shelf for some time; no demand whatever. Beauty, Kaiserin and Carnot roses are in good supply and selling well.

DETROIT The local florists can with pleasure look forward to a heavy season, for the competing forces are increasing very little while the city itself is growing ever so rapidly; the only thing which may mar our hopes may be some weak-knee among us who will be induced through some weird logic in his brain to cut prices. At the present time vacations are our main topic of interest.

INDIANAPOLIS We are now experiencing the worst of the summer season. Stock inside is at its worst, while out door flowers are below the usual grade of quality. The recent hot weather has sent society to the different resorts and naturally flowers find little demand. No good roses are to be had. A few good Beauties are seen but supply is short of demand. Asters are coming stronger but it will be several weeks before they will be in full supply. Gladioli are plentiful and sell well. Fine growing weather has prevailed throughout the season with just enough rain to insure a steady, healthy growth, and it has put plants in a splendid condition; chrysanthemums especially are making a good showing.

NEWPORT Newport is at present in a flourishing condition. Business is beginning to boom in a way it has not boomed in many years. The city is just simply filled up with people; that being the case, how can it be otherwise than a good season and if any man feels the other way about it the chances are that it is his own fault. Good flowers in all classes are finding a satisfactory market except where they are in over-production for the moment.

NEW YORK There is little to be said concerning the flower trade of this city at present writing, mainly because there is not any worth talking about. Somnolence profound prevails in and about all the retail and wholesale establishments, the latter only furnishing an exception when awakened by the unintelligible but forcible jargon of the swarms of Greeks or when some out-of-town cemetery florist gets a big order and comes in to buy the stock to fill it, the usual purchase in such cases being a cargo big enough to fully occupy the entire platform of a 28th street horse car and cause conductors and drivers to lift up their voices in loud protest. The money usually paid for such an outfit would just about buy enough flowers to fill a collar box in the good old winter time.

PHILADELPHIA For midsummer the volume of business has been very fair with normal market as to prices and supplies. Asters are now very plentiful and arriving at the rate of from 200,000 to 300,000 blooms daily but sell fairly well and fill the gap usually occupied by carnations which are now coming in very sparingly. Roses are also in short supply, especially Beauties and good pinks. Kaiserins are more plentiful and some good Libertys are arriving and lily of the valley. Cattleyas keep in fairly steady volume with good demand. Gladioli are much appreciated at present. Auratum and speciosum lilies find ready takers. There is very little demand for other garden flowers. Cold-storage peonies show up well and are a choice and welcome item.

TWIN CITIES Trade is quiet and the most of the florists do not expect to do much until the fore part of September. Roses continue scarce and it is difficult to obtain good summer stock. Chicago is practically the market. Prices have not dropped. Sweet peas are moving nicely and a great variety is handled by all the dealers.

You will find something worth reading on every page of HORTICULTURE.

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plant. Open house will be the rule during convention time and there is to be a special reception on the roof, as announced in the prospectus of the local entertainment to be offered the S. A. F. visitors in Philadelphia. No doubt every attendant at the convention will visit, at least once, Messrs. Bayersdorfer & Co., and we can promise them that every floor of the big house will present a surprise in the variety, beauty and utility of its contents.

The greenhouses of C. J. Harvey, Needham, Mass., were slightly damaged by fire on August 1.

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Ready to talk with growers about consignments for coming season

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Aug. 3 1907		First Half of Week beginning Aug. 5 1907			Last Half of Week ending Aug. 3 1907		First Half of Week beginning Aug. 5 1907	
Roses					Carnations, Fancy and Novelties..	1.00 to 3.00	1.00 to 3.00		
Am. Beauty, fan and sp.	10.00	to 20.00	10.00	to 20.00	Ordinary .....	.50 to 1.00	.50 to 1.00		
" extra	6.00	to 8.00	6.00	to 8.00	Sweet Peas (ice bunches)	1.00 to 1.50	1.00 to 1.50		
" No. 1	3.00	to 3.00	3.00	to 3.00	Cattleyas	20.00 to 50.00	20.00 to 50.00		
" Lower grades .....	.50	to 1.00	.50	to 1.00	Lilies	3.00 to 5.00	3.00 to 5.00		
Bride, 'Maid, Golden Gate, fan & sp	1.00	to 4.00	1.00	to 4.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00		
" lwr. grds. ....	.25	to .50	.25	to .50	Asters .....	.50 to 1.00	.50 to 1.00		
Liberty, Richmond, fancy & special	1.00	to 4.00	1.00	to 4.00	Gladioli .....	.50 to 4.00	.50 to 4.00		
" lower grades ..	.25	to .50	.25	to .50	Adiantum .....	.50 to .75	.50 to .75		
Chatenay, Morgan, fancy and spec.	1.00	to 4.00	1.00	to 4.00	" Croweanum	1.00 to 1.50	1.00 to 1.50		
" lower grades ..	.25	to .50	.25	to .50	Smilax	8.00 to 12.00	8.00 to 12.00		
Killarney, Wellesley, fan. and spec.	1.00	to 4.00	1.00	to 4.00	Asparagus Plumosus, strings....	20.00 to 30.00	20.00 to 30.00		
" lower grades ..	.25	to .50	.25	to .50	" & Spren. (too bchs.)	10.00 to 25.00	10.00 to 25.00		

ORCHIDS AT ALL SEASONS**WM. STUART ALLEN CO.**

Commission Merchants in Cut Flowers

53 WEST 28TH STREET, NEW YORK

Telephone 356 Madison Square

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Furnish best stock at fair prices all the year round Send for quotations on fall orders

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Alexander J. Guttman**THE WHOLESALE FLORIST OF NEW YORK****43 WEST 28th STREET****PHONES. 1664--1665 MADISON SQUARE****ENOUGH SAID****In writing to Advertisers kindly mention Horticulture**



HARDY FANCY CUT FERNS, Extra fine, \$1 per 1000
BRONZE GALAX, \$1.25 per 1000. **SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25**
Hammond's Old English Liquid Putty, \$1.25 per Gal. **Hammond's Greenhouse White Paint, \$1.50 per Gal.**
DISCOUNT ON LARGE LOTS

Give us a trial order on ferns; we are sure we can please you. Headquarters for Florist Supplies and wire work.
 Write for price list on cut flowers and supplies.

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Telegraphic Orders Filled and Delivered.
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55 and 57 West 26th Street,
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 Madison Square. **New York.**

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Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
 Long Distance Phone 1435 Court.

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122 West 25th St., New York

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We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
 and are dealers in
Glassware Decorative Greens and Florists' Requisites.

Look through the Buyers' Directory
 and Ready Reference Guide. You
 will find some good offers there also.

The KERVAN CO.

113 W 28th St.,
 New York

WHOLESALE DEALERS
 Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen.

BUSINESS CHANGES.

G. H. Ede has bought the business
 of Mrs. J. H. Deal at Owosso, Mich.

John McKerrighan, Toronto, Can.,
 has disposed of his business to S. A.
 Frost.

S. J. Banks retires from the firm of
 Pillow & Banks, Westport, Ct., and is
 succeeded by Joseph H. Sniffen.

Magnuson & Hylen succeed W. F.
 Spry at Manchester-by-the-Sea, Mass.,
 as florists and landscape gardeners.

W. E. Packard has purchased the
 business of Stanley Baker, Hanover,
 Mass., and will enlarge the green-
 houses at once.

Best Flowers

In the **Boston Market**

N. F. MCCARTHY & CO.

84 HAWLEY STREET
BOSTON, MASS.

SEND FOR PRICES

Headquarters in Western New York

FOR
ROSES, CARNATIONS

And all kinds of Seasonable Flowers

Wm. F. Kasting Co.

Wholesale Commission Florist, also Dealer in
 Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.
BUFFALO, N. Y.

Give us a trial. We can please you.

HENRY M. ROBINSON & CO.

WHOLESALE FLORISTS

FRESH CUT FLOWERS, CUT EVERGREEN, AND FLORISTS' SUPPLIES.

15 Province St. & 9 Chapman Pl., Boston, Mass.

WHOLESALE FLOWER MARKETS.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	August 6		August 5		August 5		August 6	
ROSES								
Am. Beauty, Fan, and Sp.....	15.00	to 20.00	20.00	to 25.00	20.00	to 25.00	15.00	to 20.00
" Extra.....	10.00	to 12.00	15.00	to 20.00	15.00	to 20.00	10.00	to 12.00
" No. 1.....	4.00	to 6.00	8.00	to 10.00	8.00	to 10.00	4.00	to 6.00
" Lower grades.....	3.00	to 6.00	2.00	to 3.00	3.00	to 6.00	2.00	to 3.00
Bride, 'Maid, Golden Gate, F. & S.	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00
" " " Extra.....	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00
" " " No. 1 & lw. gr.	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00
Liberty, Richmond, Fan, & Sp.....	5.00	to 6.00	4.00	to 6.00	6.00	to 8.00	5.00	to 6.00
" Lower grades.....	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00
Chatenay, Morgan, Fan, & Sp.....	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00
" Lower grades.....	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00
Kaiserin, Carnot, Fan, & Sp.....	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00
" Lower grades.....	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00
Killarney, Wellesley, Fan, & Sp.....	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00
" Lower grades.....	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00
CARNATIONS								
Fancy and Novelties.....	1.50	to 2.00	1.50	to 2.00	1.50	to 2.00	1.50	to 2.00
Ordinary.....	1.00	to 1.50	1.00	to 1.50	1.00	to 1.25	1.00	to 1.50
MISCELLANEOUS								
Sweet Peas.....	.25	to .50	.25	to .50	.25	to .50	.25	to .50
Cattleyas.....	50.00	to 60.00	50.00	to 60.00	50.00	to 60.00	50.00	to 60.00
Lilies.....	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Lily of the Valley.....	4.00	to 5.00	4.00	to 5.00	4.00	to 5.00	4.00	to 5.00
Asters.....	.75	to 1.00	.75	to 1.00	.75	to 1.00	.75	to 1.00
Gladioli.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Adiantum.....	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax.....	12.50	to 15.00	15.00	to 20.00	12.50	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings.....	35.00	to 50.00	35.00	to 50.00	35.00	to 50.00	35.00	to 50.00
" "								

GLADIOLI

Cut spikes in any quantity from
 Selected White and Light Shades;
 Selected Mixed Colors and Named
 Varieties of Exceptional Beauty.

Write for Prices

ARTHUR COWEE

Gladiolus Specialist

Meadowvale Farm, BERLIN, N.Y.

BOXES BOXES BOXES

LIGHT WOOD CUT FLOWER BOXES

Sizes in Stock

	per 100
3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

GETMORE BOX FACTORY, Incorporated,
BELLEVILLE, ALA.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIA PUBESCENS

Albert Dirwanger, 422 Congress St., Portland, Me.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
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ADIANTUMS

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Adiantum Hybridum, 2-12 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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Fall delivery. Our stock will please you.
J. W. Dunford, Clayton, Mo.

ASPARAGUS

C. Elsele.

11th and Roy Sts., Philadelphia, Pa.
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Morel Bros., 624 E. Market St., Scranton, Pa.

Asparagus Sprengeri.

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Asparagus Sprengeri, 2-14 in.; ready for planting out or into larger pots. \$2.50 per 100; \$20.00 per 1000; 500 at 1000 rates. J. F. Anderson, Short Hills, N. J.

Asparagus plumosus nanus and Sprengeri, 2-12 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2 in., \$3.00; 3 in., \$5.00; 4 in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2 in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

You'd ought to see those Plumosa Seedlings we're sending out @ 95c per hundred prepaid. They're full count and then same are packed to perfection to travel safely this hot weather. Take old Daddy Time by the forelock on that old bald pate of his and get them to growing into golden dividends now. You lose time if you wait till next month as under our special culture you can yet make nice plants for Fall trade. Budd Park Greenhouses, 40 Hardesty Ave., Kansas City, Mo. 100,000 ready.

100 per cent. or more is tempting bait, now isn't it? You can declare it, if like the bird and worm story you'll get an early hustle on you. Asparagus Plumosa Nanus out of 2 in. ready for shift \$2.60, 2-12 in. \$3.00 per hundred, f. o. b. Strong seedlings: Plumosa 95c., Sprengeri 80c. per hundred prepaid. Allowance of extra plants to partly compensate express charges on distance greater than 1000 miles. Emulate the ant in his ambition to pile up a hoard for next winter pile in your order, with the cash and just watch our special culture, aqua pura and old Sol run the percentage such a speedy chase a ride on the scenic will resemble a snail race. No orders less than one hundred. Budd Park Greenhouses, 40 Hardesty, Kansas City, Mo.

ASPARAGUS—Continued

Plumosus, 2-12, 3, 3 1-2, 4, 5 and 6 in., 4, 6, 10, 12, 20, and 30c. respectively. Cornuensis, 2 and 2 1-2 in., 3 and 4c. Sprengeri, 2-12, 3 1-2, and 4 in., 4, 8 and 10c. J. W. Dunford, Clayton, Mo.

AZALEAS

John Scheepers & Co., 4 and 6 Old Slip, New York.

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The best commercial varieties. J. W. Dunford, Clayton, Mo.

BAMBOO CANES

Stumpp & Walter Co., 50 Barclay St., New York.

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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEGONIAS

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.

Begonia Gloire De Lorraine.
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Begonias—Fairy Queen, Gracilis, and other flowering kinds; 3 inch \$5 per 100. Harlowarden Greenhouses, Greenport, L. I.

BOILERS

BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
Cold Storage Lilies.

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Richards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4 and 6 Old Slip, New York.

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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

Lillium Harrisii and Freesia Bulbs.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.

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James Vick's Sons, Rochester, N. Y.
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D. Rusconi, 32 W. Sixth St., Cincinnati, O.
Callas, Narcissi, Dutch Bulbs.

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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

BULBS AND TUBERS—Continued

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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Chicago Carnation Co., Joliet, Ill.
Carnation Aristocrat.

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John E. Haines, Bethlehem, Pa.
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Imperial, Pink Imperial.

Harlowarden Greenhouses, Greenport, N. Y.
Field Carnations.

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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

Strong field plants, Enchantress, Helen Goddard, Red, White, Var., Light Pink, and Pink Lawson at \$6 per 100; Fair Mald, Harlowarden at \$5 per 100. R. D. Kimball, Waban, Mass.

CHRYSANTHEMUMS

Chas H. Totty, Madison, N. J. Chrysanthemum novelties.

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The H. Weber & Sons Co., Oakland, Md.
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C. Elsele, 11th and Roy Sts., Phila.

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Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting Co., 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums—All good late kinds, standard novelties out of 2-12 inch, up to September 1. Harlowarden Greenhouses, Greenport, N. Y.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2-12 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Hallday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

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Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
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DAHLIAS

David Herbert & Son, Atco, N. J.
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DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine.
\$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100;
6-in., \$6.00 per doz.; 7-in., 30 to 34 ins.
high, 75c. each, \$9.00 per doz.; 8-in., \$12.00
per doz. Terminalis, 3-in., \$2.00 per doz.;
6-in., 75c. each; 4-in., 25c. each, \$3.00 per
doz. The Geo. Wittbold Co., 1657 Buck-
ingham Place, Chicago.

EVERGREENS

Bay State Nurseries, N. Abington, Mass.
Small Evergreens.
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August Ralke & Sons, 31 Barclay St., New
York. Small evergreens.

FERNS

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmani.
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Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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Wm. C. Smith, 61st and Market Sts.,
Philadelphia.
Boston and Scott's Ferns.
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Stumpp & Walter Co., 50 Barclay St.,
New York.
Ferns in Flats.
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Godfrey Aschmann, 1012 Ontario St.,
Philadelphia, Pa.
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Miami Floral Co., 24 N. Main St.,
Dayton, O.
Boston Ferns.
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W. P. Craig, 1305 Filbert St., Philadelphia.
"Amerphill."
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FERTILIZERS

Pulverized Manure Co., 31 Exchange Ave.,
Chicago.
"Wizard Brand" Sheep Manure.
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FICUS

Wm. C. Smith, 61st and Market Sts.,
Philadelphia.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 228-228-1-2
Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St.,
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Koral Mfg. Co., 26 Hawley St., Boston.
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9 Chapman Pl., Boston, Mass.
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Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St.,
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FLOWERS BY TELEGRAPH

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Gude Bros. Co., 1214 F St.,
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Samuel Murray, 1017 Broadway,
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd.,
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P. J. Hauswirth, 232 Michigan Ave.,
Chicago.
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William J. Smyth, Michigan Ave and 31st
St., Chicago.
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Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway,
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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GALAX

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.
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GARDENIAS

Stumpp & Walter Co., 50 Barclay St.,
New York.
Gardenia Plants.
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GLADIOLI

Arthur Cowee, Meadowdale Farm, Berlin,
New York.
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John Lewis Childs, Floral Park, N. Y.
Gladiolus Blooms.
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Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

GLASS

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GREENHOUSE CONSTRUCTION, Semi-
Iron Greenhouses, New Truss Houses and
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GUTTERS, Cast Iron Gutters, L. & B.
Improved V Shaped Gutter with drip gutter
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Fancy Ferns.
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A full line of ferns, galax, and all wild
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Nicotide kills all greenhouse pests.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILACS

August Rolker & Sons, 31 Barclay St., New York.
Forcing Lilacs.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NIKOTEEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

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Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

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58 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

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Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

French Peonies. The best collection. All varieties guaranteed true to name. Large stock. Strong plants. Catalogue free. Dessert, Peony Specialist, Chenonceaux, France.

All the new French Peonies grown by a specialist right at home. The best that can be obtained from any source. Everything as represented and no small nursery stock sent out. E. J. Shaylor, Wellesley Hills, Mass.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

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Rose Mrs. Jardine.

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Low-budded roses, No. 1, \$95.00; No. 1-1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Rose Plants: 1,000 Meteors, 4-in. pots, 3 1-2c.; 1,000 Brides, 2 1-2-in pots, 2 1-2c.; 1,000 Maids, 4-in. pots, 3 1-2c. Fine stock. Brant Bros., Utica, N. Y.

725 Maids, 200 Ivory, 75 Gates, very strong, in 4 and 3 1-2-in. Just right for benching, \$5.00 per 100, \$40.00 for the lot. Cash. J. W. Dunford, Clayton, Mo.

The beautiful new pink rose, MISS KATE MOULTON is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500 \$125.00; 1000 \$200.00; 5000 and upwards \$175 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

RUSTIC WORK

Wm. Elliott & Sons, 201 Fulton St., N. Y.

SALVIA

2 1-2-in. Very strong, 2c. J. W. Dunford, Clayton, Mo.

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I sell only reliable flower seeds. Ask
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Hoboken, N. J.

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Pulverized Sheep Manure.

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

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100,000 field-grown tomato plants, C.
Jewel, L. Beauty, etc., \$1.00 per 1,000. 15
varieties cabbage, \$1.00 per 1,000; \$7.50 per
10,000. Celery plants, \$1.25 per 1,000; 10-
000 for \$10.00. 50,000 cauliflower, best
snowball, 50c. per 100; \$2.50 per 1,000.
Cash. Catalogue. F. M. Pattington,
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The Chicago Lifter.

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Model encased, self-oiling gear; Standard
Model Open Gear. Lord & Burnham, 1183
Broadway, N. Y.

VIOLETS.

5000 clumps California violets, ready now,
finest stock in the west, 4 1-2 c. 250 or
more at 4c. J. W. Dunford, Clayton, Mo.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellacher's Wire Works, 38 40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

All standard frames in stock. Special de-
signs made to order in hurry-up time. N.
F. McCarthy & Co., 84 Hawley St., Bos-
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The Helm Carnation Support. Write for
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SHRUB CHAT.

Just now the prairie rose, last but not least of the garden roses, is loaded down with its profusion of satiny pink bloom. This glorious garden and pillar shrub is not known or appreciated as it should be.

Rhododendron maximum is about through flowering. It is a pity that this useful evergreen should have to qualify its standing as a garden shrub by a comparison with the earlier and in every way more showy fancy hybrids. Its inferiority of foliage effect, its more straggly growth, monotony of flower color and habit of obscuring the bloom with the young growths are serious handicaps in the estimation of those who are familiar with the hardy hybrids. Here is a shrub that invites improvement at the hands of the plantsman and hybridist.

The loniceras, which a few weeks ago were objects of beauty, laden with honeyed bloom are again attracting attention with their wealth of crimson, scarlet and orange fruit, no less beautiful than they were in their spring dress.

Spiraea Anthony Waterer has been condemned for its untidy brown seed masses which follow the dropping of its attractive pink bloom. It certainly is a most objectionable habit for an otherwise superb garden shrub. But its readiness to keep constantly blooming all through the season if given a little attention atones for this one drawback which can be overcome by a little time and trouble spent in trimming back the branches as fast as they go out of flower. On a large place where planted in quantity this is not always practicable but in any moderate-sized garden there is no good excuse for neglecting it.

For covering buildings, walls, or any other object with a rapid growing vine nothing can excel *Actinidia arguta*. When well established the stems will grow at an incredible rate and the massive dark foliage is exceedingly rich and effective.

Rosa lucida alba—so-called, but possibly a distinct species, found some years ago in Deerfield, Me., is now becoming pretty well distributed among the gardens in the neighborhood of Boston. It is a late bloomer very free and vigorous, the flowers snow-white and deliciously fragrant. Unfortunately it usually falls victim to myriads of rose bugs which finding no other roses to feed upon except setigera (which, by the way, they for some reason avoid) pounce upon this and riddle and tear the petals to shreds totally destroying its beauty. One of these bugs, of red color, with pointed snout and rather smaller than the ordinary rose chafer is more destructive, if possible, than this better known pest.

Ligustrum Ibo, although lacking the luxuriant and glossy foliage which makes its relative ovalifolium or California privet so seductive, has the advantage of hardiness where the latter is liable to winter-killing and makes a very attractive single specimen on the lawn or in the mixed shrubbery border with its symmetrical form and arching branches laden in July with fragrant white flower clusters of which the bees are very fond.

HYDRANGEA PANICULATA GRANDIFLORA.

Our frontispiece shows a handsome hedge of this well-known garden shrub and indicates a use for it at once effective and appropriate. Owing to the lateness of its leafing out in spring and the earliness of its leaf-shedding in fall this shrub is not well adapted to the purposes of a hedge proper but as a facing for a high hedge of other material or against a background of any dark green foliaged shrubs or trees it has few rivals. If planted where shade strikes it through the mid-day hours the flowers will retain their whiteness in perfection for several weeks. If cut down almost to the ground every spring and given plenty of stimulant enormous heads of flowers will be produced on stiff stems of great length. The above facts are generally known to florists and others. It is not so well known, however, that by pinching out the flowering tips as soon as they begin to form, usually about July 1 to 5, the crop may be retarded and an abundance of late flowers secured at a period when the cool weather keeps them pure white for a considerable time and when they will come in very acceptably for floral decorative work.

Alexander McConnell of New York City sailed on S. S. Oceanic, July 31, on a pleasure trip to England, Ireland, Scotland, Isle of Man, France and Germany. He expects to reach New York again about October 16. This is Mr. McConnell's first trip across the Atlantic in 22 years. A host of friends will wish this genial and universally beloved representative of New York's retail flower trade "Bon Voyage" and great physical benefit from his well-earned vacation.

Special Philadelphia Convention Number Will Be Issued August 17.

It will reach the best trade at the convention and all through the country.

Send Us Your Advertisement Now.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Competent assistant in flower, seed and bulb department. State experience and salary wanted. Address Schlegel & Fottler Co., Boston, Mass.

SITUATIONS WANTED

WANTED—Situation by young man to do landscape work or as foreman of a private place; has graduated from an agricultural school and has had four years experience. Address S. T., care of HORTICULTURE.

?

Is Your Name In The Above List? If Not, Why Not?

DEMAND FOR NURSERY STOCK IN CHINA.

Vice-Consul Ernest Vollmer, writing from Tsingtau, gives the following account of the newly created demand in that part of China for fruit trees which he thinks, American nurserymen should supply:

"The German forestry department for the Kiaochow territory, with headquarters at Tsingtau, has within the last few years planted a large acreage in forests, using mainly acacias, but also oaks and many varieties of pine. Aside from this purely forest work a large experiment station is located at Tsingtau.

At this station extensive investigations have been conducted with pear, apple and plum trees from Germany and California; cherries from California, and native peaches and apricots, besides berries of all sorts. The success with this imported stock has been so satisfactory that the fruit business will be entered into on a large scale and it is hoped to make Shantung one of the greatest fruit-exporting countries in the world.

In order to expedite matters and create an interest among the native farmers, 66,000 grafted and budded young trees were distributed free among the Chinese last year, and even then the demand was not nearly filled.

It would thus seem that the California fruit trees and their merits are known to the German officials, but the native simply knows that he can get a few trees free from the forestry department. Seeing the higher price the fruits from foreign trees bring, the Chinese are naturally anxious to get as many trees as possible, and this causes a shortage. With the German Government fostering the fruit industry and every possibility of its high development in this district, a great field should soon be opened to the American nurserymen. California trees have proved successful here, and, with a rapidly growing demand, it would pay Americans to go after the business."

We are in receipt of a very pleasant letter from Mr. A. Leuthy, of Roslindale, Mass., written from Hotel de la Poste, Ghent, in which he gives us the following information:—

"The stock of azaleas in Gand is far behind that of other years on account of the cold weather. The buds are not set yet but with warm weather they will be all right in two or three weeks. Palms are very high in price; on some of the places they do not know how much to ask for them and in many places they are forced so hard they would not stand shipping. Tuberous begonias are also far behind the growth of other years. The hybrid roses are just in full bloom at present; also, the bedding plants in the parks and gardens never looked better than this year.

"I am trying to get back to New York on the 17th of August and will attend the convention in Philadelphia if possible.

"The weather here is very pleasant as well as the surroundings. There are several American florists at this hotel, some from New York, others from Philadelphia, and still more coming."

A RECORD PRICE FOR A CHRYS-ANTHEMUM BLOOM.

Those of your readers who are old enough to remember the sale of Mrs. Alpheus Hardy, a hairy Japanese chrysanthemum of some repute eighteen years ago, will be interested to learn that big prices are not wholly confined to your side. A short time since there appeared in a London illustrated newspaper called "Sketch" a portrait of the Princess Von Hohenberg and an illustration of a bloom of the chrysanthemum called Sada Yacco a variety raised by Nonin of Paris.

The following interesting note accompanies the portrait and picture of the flower. A music exhibition held at Trieste, under the presidency of the Archduchess Friedrich, was a failure and to pay off all the debts incurred a number of Austrian ladies organized a Flower Show. Among the visitors was Sophie, Princess von Hohenberg, wife of the heir to the Austrian throne, who, after asking how much money was still wanted, and learning that £8000 (or about \$40,000 in American money) would set matters right, paid that sum for the single bloom shown. Apart from the charitable intent this may be taken as a record of first magnitude. C. H. P.

PUBLICATIONS RECEIVED.

The New York Agricultural Experiment Station has issued a popular edition of bulletin 281 on Miscible Oil Sprays, summarized by F. H. Hall. The conclusions intimate that the proprietary scale remedies of the miscible oil class are too expensive for general use by orchardists and that, in order to be effective, they must be used in considerably greater strength than recommended by the manufacturers.

As showing something of the amount of work the State Experiment Stations are called upon to perform it is interesting to learn from the report of the director of the New York Agricultural Experiment Station that in one department alone, that of fertilizer inspection, the station annually receives for analysis from the Commissioner of Agriculture from twelve to fifteen hundred samples of fertilizers and feeding stuffs, requiring upwards of eight thousand single chemical determinations. Some of these determinations are rendered more time-consuming by the fact that occasionally they must serve as testimony in court. These samples are known to the station authorities only by number. As these analyses are the basis for determining whether fertilizer manufacturers are violating the law as to the quality of their goods, it is necessary to surround this part of the work with all needed precautions as to accuracy. The station's part in fertilizer inspection is one of the most laborious and expensive duties that it has to perform.

VICTIMS OF HAIL STORMS.

The Yuess Garden Co. and the Schaefer Co., Newburgh, N. Y., lost heavily recently, without insurance,

T. G. Yale, Wellington, O., on July 25. H. F. Drury, Galesburg, Ill., July 24; heavy losers.

C. J. Burdell, Bowling Green, Ky., between three and four hundred lights destroyed.

OBITUARY.

Mrs. C. J. Inloes, mother of Mrs. C. E. Critchell, Cincinnati, O., died on July 29.

Mrs. Harriet S., widow of Orange Judd, for many years editor of the American Agriculturist, died at Springfield, Mass., on August 2, aged 64.

James Young, Hartford, Ct., died of tetanus on July 26. He came to this country from England in 1892 and for eleven years has conducted a florist business in Hartford. Mr. Young was about 40 years old, was a member of several fraternal organizations and highly esteemed in the community. A widow and five children survive him.

Frederick L. LaFrance, of the LaFrance Carnation Co., Elmira, N. Y., died suddenly on July 28 at his summer residence at Port Bay, Lake Ontario. Mr. LaFrance has been a life-long resident of Elmira, and about nine years ago started in the florist business. He was forty-five years of age. A widow and two daughters survive him.

William H. Traendly, who has conducted a retail flower business on West 17th street and at the Cafe Martin, New York City, for a number of years, died at New York Hospital on August 2, aged 45 years. Mr. Traendly had been ill but a week with a rheumatic trouble which affected his heart and caused his death. The interment took place on Sunday. He leaves a wife and two children. He was a brother of the well-known wholesale florist Frank H. Traendly.

RUMORED DROWNING OF EDWARD HEACOCK.

At this writing (August 7th) the Heacock family at Wyncote, Pa., are in a state of keen suspense over the news received yesterday from British Columbia. The details so far are meagre. All that is known positively is that the canoe upset; that Edward clung to the overturned craft and that his companion swam ashore. Later the canoe was recovered but all the rest blank. Edward Heacock is the second son of Joseph Heacock the well known palm and rose grower. He went on a pleasure trip to British Columbia some time ago. This tragedy—as there is only too much reason to think it will turn out to be a tragedy—has cast a gloom over the entire community here. We earnestly hope that some trace of the missing man may be heard of soon. The sympathies of everyone will go out to the stricken household in their great sorrow.

ELIOT, ME., Aug. 7.—There was a head-on collision between two open electric cars on the Atlantic Coast line at Kennard's Corner here tonight, when three persons were seriously injured and several others thrown from their seats and bruised.

Mrs. William H. Elliott, of Brighton, Mass., and Madbury, N. H., her summer home, was thrown from her seat to the ground, receiving injuries to both hips and a scalp wound. Boston Post.

We sincerely trust the above account is exaggerated and that Mrs. Elliott has sustained no serious injury.

GREENHOUSES BUILDING OR CONTEMPLATED.

New.

Meridian, Miss.—Mrs. J. E. Watts, house.

No. Reading, Mass.—Mr. Bailey, one house.

N. Beverly, Mass.—S. W. Winslow, conservatory.

Philadelphia, Pa.—Thos. Dolan, house, 36 x 100.

Millbrook, N. Y.—W. C. Russell, house 20x70; J. D. Wing, two houses, 25x120, 25x50.

Additions.

Danbury, Ct.—L. H. Seaman, remodeling.

Berlin, Mass.—Samuel Wheeler, one house.

Mansfield, Mass.—Fred Dustin, one house.

Hanover, Mass.—W. E. Packard, enlarging.

W. Newton, Pa.—M. Fenton, house, 30 x 100.

New London, Wis.—P. Olson, extensions.

Des Plaines, Ill.—H. C. Blewitt, violet house.

Detroit, Mich.—F. J. Rosser, range of houses.

Brooklyn, Md.—M. Duckstein, improvements.

Adams, Mass.—A. J. Boothman, house, 26x40.

Fulton, Ill.—Hill Bros., five houses, each 150 feet.

Chatsworth, Ill.—Thos. Pepperdine, house 20 x 35.

Beverly, Mass.—Arthur Kidder, range of houses.

Chatham, N. Y.—Chatham Floral Co., one house, 26 x 120.

Whitinsville, Mass.—Edward Whittin, conservatory, 20 x 60.

West Chester, Pa.—Hoopes, Bro. & Thomas, range of houses.

Sandusky, O.—White's Conservatory are erecting a house 28x77, in place of two old ones.

Rutherford, N. J.—Julius Roehrs Co., three orchid houses each 150 ft. long, and large boiler house.

John Breitmeyers' Sons have about completed a new violet house, 22x300.

Findlay, O.—Waaland & Co. who are now running the two establishments formerly conducted by Barnd, Karg & Co. and the Swan Floral Co., are tearing down one of the houses of the Main St. place and rebuilding and adding one each to their Front St. plant. Two large houses have recently been built by S. J. McMichael, to be used for vegetables.

LIST OF PATENTS.

Issued July 23, 1907.

- 860,687. Cultivator. Matthew H. Nicholson, Tyler, Texas.
860,694. Draft Equalizer. Nels A. Rodness, Clarksfield, Minn.
860,756. Tobacco Shade. Robert S. Matheus, Fowlston, Ga., and Mack D. Downs, Glory, Fla.
861,046. Knockdown Flower Pot. Carl U. E. Norum, Hubbell, Mich.

I HAVE THE LARGEST LINE OF CAST IRON AND STEEL GREENHOUSE BOILERS

A prominent florist says—

"Far Ahead of Any
steam boiler that I have ever seen
or used in regard to heating and is
very economical in coal."

This is the verdict of an old time florist.

Do not decide until you have my estimate
on boiler or heating material.

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Sash opening apparatus and all kinds of
greenhouse structural material.



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**American and French
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Reliable Brands at Lowest Market
Prices

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BOSTON, MASS.

**NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL.** For particulars address

John G. Esler, Saddle River, N. J.

861,048. Cultivator. James M. Pearson, Florence, Ala.

861,196. Sulky Attachment for Harrows. Charles S. Sharp, Auburn, N. Y., assignor to International Harvester Co., a New Jersey Corporation.

861,236. Scraper for Disk Harrows. Andrew L. Moen, Forest City, Iowa.

You will find something worth reading
on every page of HORTICULTURE.

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Gardens

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Manures

Every Greenhouse operator and gardener knows that pure Sheep Manure is the most efficient and satisfactory fertilizer for putting new life and growing power into his gardens and the strongest plants—brightest foliage—most beautiful and perfect blooms result from its liberal use in the Spring.

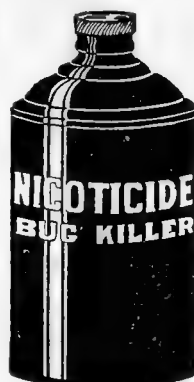
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Sheep Manure**

is absolutely pure. It is the best and most economical Greenhouse and Garden fertilizer on the market. Write today for prices and booklet. All kinds of dried manures, shredded or pulverized for sale.

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OWENSBORO, KY.

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Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 3 1/2 " " " "	5.25	60 8 " " " "	3.00
1500 3 1/2 " " " "	6.00	HAND MADE	
1000 3 " " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/2 " " " "	5.80	48 10 " " " "	4.80
500 4 " " " "	4.50	24 11 " " " "	3.60
320 5 " " " "	4.51	24 12 " " " "	4.80
144 6 " " " "	3.16	6 16 " " " "	4.80
		6 16 " " " "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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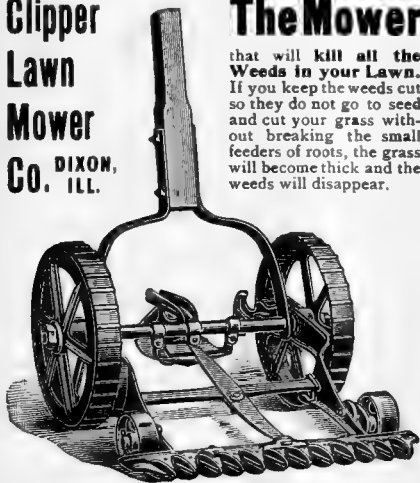
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We shall show our steel plate boiler and the Circulator in operation at Philadelphia Convention.

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The Mower

that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter.

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See the Point
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Glazing Points are the best.
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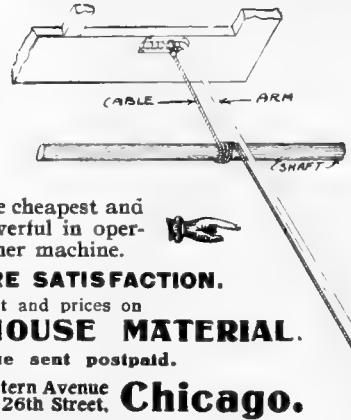
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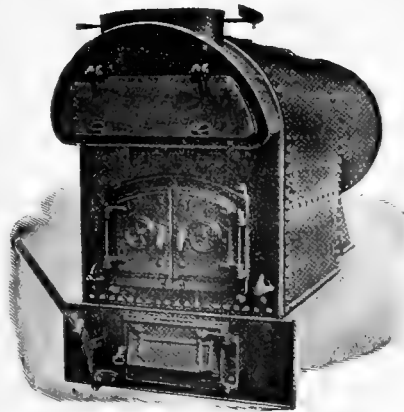
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gives shade and still allows free circulation of air.

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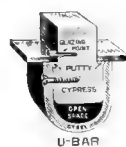


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They are always ready to take up any absolutely new thing that comes along, just because it is new, and seem to think its immediate adoption is kind of a shrewd act, getting ahead of their fellow growers. Now, don't mistake us, we are not crying down new ideas, for we always have some to market ourselves, but we do believe that a *developed* thing, one that has been improved and improved again, each time doing its work better, stands a far more reasonable chance to be serviceable and right down practical than the "Johnny Jump Up" proposition. Think it over, and then tuck this under your hat, that the L. & B. Encased Self Oiling Gear is all that's best in fifty years of ventilating experience. There are undeniable reasons why you should buy it. Send for the just printed catalog, and then send your order.

**We make every part for a greenhouse
but the glass. We sell any part.**

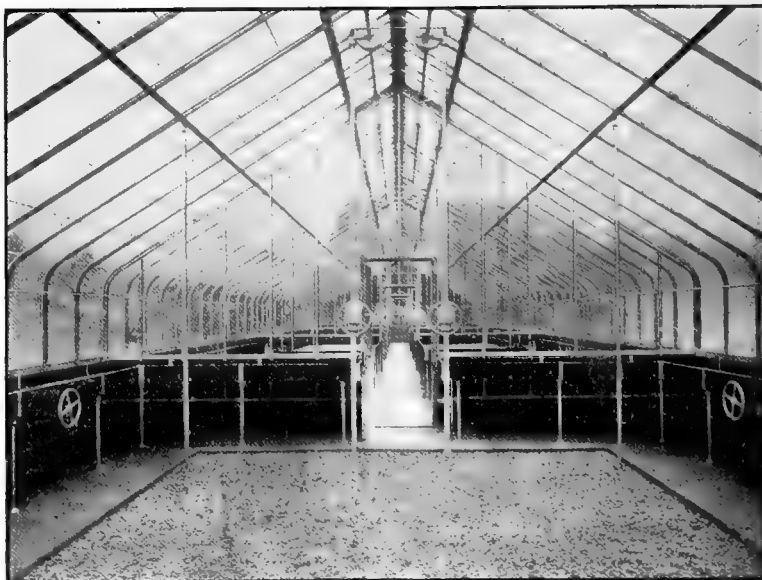
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A GREENHOUSE filled with plants is most interesting as far as the plants are concerned.

but often rather taking the attention from the construction. We want you to see construction, and construction alone, for if the construction is right, the plants do their part. So believing that the strongest argument we have to offer for the U-Bar house, is not anything in comparison with what seeing one would be;

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HORTICULTURE

Vol. VI

AUGUST 17, 1907

No. 7

CONVENTION NUMBER, 1907





The House that Helps

Has been at it for a lifetime, especially equipped from the purpose with men selected for their knowledge of the successful achievement based upon "delivered goods."

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Is our main business. We have the type, the cuts, the presses, the men and the "know-how" and very many of the great catalogue successes of the trade have been our product. The work we do has selling power as well as mechanical excellence and beauty. It costs a little more, perhaps, than the ordinary product, but is the cheapest to be had, judged by the final result of the sales it makes.

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The trade is awakening to the fact that a catalogue, however good, doesn't answer the whole purpose of selling literature—that there must be appropriate "follow-up" stuff to make the catalogue yield full returns. We were pioneers in this field—having originated horticultural picture post-cards and other methods that have "made good." Our men have a good crop of new ideas for fall application.



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excellence is not of a day's
growth. The result of years of pains-
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Not alone are these ribbons well woven, but the
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that the ribbons when ready for sale are almost in a
class of their own. And yet, these ribbons cost you no
more, possibly less than the usual sort, for you buy di-
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adelphia are located the office, salesrooms and mill.

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Odontoglossum Harryanum



Odontoglossum Harryanum is very little known and, I believe, somewhat rare. It has just flowered in the collection here, and is considered by all who have seen it, to be a very striking species. The accompanying photograph conveys only a poor idea of the exquisite markings of the flowers. The sepals somewhat resemble *O. triumphans* but are more intensely blotched and dotted. The color is a light yellow blotched with brownish purple. The petals are yellow faintly lined near the bases with mauve, which toward the apices becomes heavy purple lines and blotches. The lip, the most striking part of the flower is divided into two nearly equal parts, the lower half pure white changing into pale yellow as the flowers become older; the upper or basal half is rich yellow in the centre, and on each side is lined with numerous delicate, interrupted lines which radiate to the outer margins. The flowers when fully expanded measure three inches from tip of upper sepal, to lower tip of the lip. The length of the spike is about twenty inches.

Flowering as it has in midsummer when few odontoglossums are able, in this climate, to mature flowers equal to those formed in spring, it may be that under more suitable conditions the flowers may be even larger and more numerous. *O. Harryanum* is by some authorities considered a variety of *O. tripudians* which it somewhat resembles but its appearance is far superior and I think distinct enough to make it a species. It is a native of Columbia and should be given the same treatment as *O. crispum* and other cool growing species.

Ginkgo biloba

I was very much interested in what Mr. Hans says in *HORTICULTURE* page 161, about the Ginkgo. This beautiful and useful Japanese tree is a great favorite with most people. I have been watching it as a street tree in Philadelphia for the past few years and it is certainly one of the very best for that purpose. It is not only free from the attacks of insects and diseases, but it does not lose a leaf until the first sharp frost in the autumn when all the leaves practically come down at once.

It is gratifying to know that there is a way to tell the staminate from the pistillate forms before planting, for the one which bears the fruits would be very disagreeable if used as a street tree—when the fruits were ripe and dropping.

There are some trees of the Ginkgo growing near to Horticultural Hall, Fairmount Park, that have interested me ever since I realized they were quite distinct in their manner of growth from any that I have seen elsewhere, excepting one that I saw on my way back from Fairmount Park on Saturday afternoon and that is to be seen in the gardens of the "zoo." They grow quite dense and pyramidal in form, as much so as the best Lombardy poplars I have ever seen.

Last autumn when in Central Laurel Hill Cemetery I saw a solitary tree of the Ginkgo of the spreading form beneath which were a large quantity of seeds. The smell of the pulp was very offensive. A few seeds were secured and on arriving at the greenhouses they were dropped into an empty three-inch flower pot and forgotten until this spring when I found some of the seeds had sprouted.

I now know, I believe, how to raise Ginkgos from seed, and it will be my ambition to raise some of the pyramidal variety to be found in Fairmount Park either by budding or grafting on the seedlings—positive knowledge thereof to be determined by experiment. The Ginkgo is classified by botanists as dioecious; now, if that tree which I took the fertile seed from is a solitary individual, whence came the pollen to make it fruitful? In some dioecious classes—the holly for instance—some of the trees are hermaphrodite: there may be some of the latter class among the Ginkgos, or there may be a male tree sufficiently near to the seed bearing one that I had not noticed which had had the desired effect! I must investigate further in this matter, if only for the benefit of science.

Neither Bailey nor Nicholson mention a pyramidal form. Three varieties—namely, *lacinata*, *pendula* and *variegata* only are on record. Neither have I found it offered in any catalog I have at hand. The tree I noticed in the gardens of the "zoo" must have been from the same lot as those to be found in Fairmount Park, because the zoo gardens are practically a part of the park and the late Chas. H. Miller had charge of the early plantings in both. Perhaps you, Mr. Editor, or some of your numerous readers may enlighten us on the pyramidal form of the Ginkgo. I hope so.

James Hutchinson

Edwin Lonsdale

Gypsophila paniculata and Its Double Form



Either for packing conveniences, economy in using, or some other reason, the "Babies' Breath" is seldom seen in its full beauty, the common fakirs, especially, pulling the spikes to pieces to make them "go" as far as possible.

Those not knowing the habits can hardly imagine the beauty of these gypsophilas if left standing year after year, (they can be left on one spot indefinitely) one plant often sending up spikes that together will measure 4 to 5 feet in diameter and 2 1-2 to 3 ft. high. The individual flowers are white and very small, but the great quantity of flower is what makes the plant so attractive and useful.

It is very hardy, and I know of no perennial that has a better habit, staying as it does in the exact spot where it is planted and never running underground. It is an ideal plant to mix in with other early-flowering perennials, whose foliage becomes yellow and unattractive, such as oriental poppies, bleeding hearts, etc.

Although the broken up spike can be used to advantage in many ways, it is for large vase work, with the natural spike cut to the ground, that the *Gypsophila paniculata* and its beautiful double form are most useful.

When planting, plant deeply, as the following season's crowns are frequently made on the stem of the year preceeding. The roots go down a great depth, which enables them to stand the driest of seasons, without in any way impairing their beauty. The description of the double form is in every way the same; the flowers are well formed, of good substance, and are about three times as large as the single, and with their extra quantity of petals, show a purer whiteness. The double has only one real commercial difference from its single parent, which is a very useful one. I refer to its blooming about ten days later, so that with the help of *G. repens*, *G. glauca*, and *G. acutifolia* we will have a continuance of Babies' Breath from spring till end of August.

For floral work of all kinds one should have both

Gypsophila paniculata and its double form. The accompanying cut is of a single spike.

Frederic J. Rea.

Seasonable Chrysanthemum Notes

SYRINGING

Now is the time of year to pay strict attention to syringing. See that the hose is held in such a position that the water gets at the under side of the leaves where the red spider is sure to be found if there are any around. If the chrysanthemum grower once gets his plants free from insects of this kind, he has no difficulty in keeping them so by syringing regularly.

SPRAYING

This is another matter that should not be neglected and which is very essential to the proper growth of the plants and if the hose is handled properly this can be done, without wetting the beds. In spraying the water should be played on the sides, roof and plants; this will reduce the temperature several degrees and it will remain so for some time. The plants are as much benefited by this treatment as any other, as it gives the house a good growing atmosphere and keeps the plants in such a condition that they move right along whereas, if spraying is neglected the plants take on a hard stunted growth and do not break away in the fashion they should.

TAKING THE BUDS

Strict attention should be given to this matter from now on as there are plenty of buds just right to take and if another growth is allowed to come it will bring them in too late for the exhibition table. Of course there are some of the earlier varieties on which the buds were taken one or two weeks ago, such as *Monrovia*, *Gustave Grunewald*, and a few others, and then again there are some kinds for very late use that do better on later buds, such as *Chadwick*, *Nonin*, etc., on which varieties the buds are usually taken in September.

INSECTS

Insects are as plentiful and as troublesome as ever this year. Any butterflies seen flying about the house should be caught and killed, as it is these that lay the eggs from which the caterpillars originate. The chrysanthemum grower should be on the lookout for the nests of eggs and destroy them before the little caterpillars are hatched out and have commenced their travels. Another insect that has been very troublesome in this vicinity this year is the cut worm; this pest does its work at night, crawling up the stem of the plants to the young soft growth and eats out the heart of the shoot, if not taken in time. If you will scrape the soil from around the base of the plants on which they have been at work you will be sure to find them in hiding waiting for the sun to set and to enjoy another feast unless they are taken by surprise and crushed under foot.

The chrysanthemums will take a good supply of water just now as the soil is filling up nicely with roots and the hot sun takes up a lot of moisture during the day, and again the water has a long distance to travel before it reaches the top of the plants.

Andrew McKendry

The Rockery

A rockery is not merely a collection of rocks planted on a mound and suggestive of a dog cemetery, but rather a question of providing a suitable home for rare, and otherwise, alpine and rock plants. It must be serviceable as well as ornamental. The most important feature is the construction of congenial homes suitable for the requirements of each species. Winding walks, mounds and dells can be formed and with the addition of a running stream, shallow ponds can be constructed and made suitable for bog and aquatic plants and yet present a natural appearance. Nothing affords greater scope for the exercise of taste and ingenuity than the designing and planting of a rockery. Though large rocks present a massive appearance small ones are preferable, as they can be handled with ease and can be taken up and replaced at will. As each individual pocket is made the soil in the pocket must be level, not sloping as is sometimes the case, so that each pocket will retain all the moisture that comes to it.

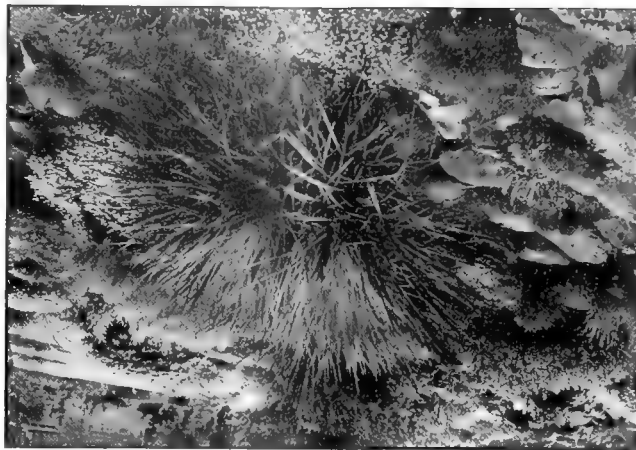
SOIL AND PLANTING

Alpines and rock plants are so varied in regard to soil that ordinary garden soil rarely suffices. A suitable mixture must be provided for them such as fibrous loam, peat, leaf soil and mortar rubbish; this will be found to suit most of the alpine plants.

When planting a rockery grouping will give much better effect than planting single plants at intervals and slow-growing plants must not on any account be planted with the more rapid-growing varieties or the result would be over-crowding. Often the most valuable alpine is destroyed in this way. When immediate effect is wanted the best method is to secure good sized plants from a reliable nurseryman, though the most interesting part of this pursuit is the raising of a collection from seed. Some of the species germinate quickly; others may be from six to twelve months, consequently there ought to be no hasty decision in turning out the pots in which the seed have been sown. A few agaves and cut-leaf maples plunged in the rockery in the summer months will add greatly to its beauty.

Collections suitable for various positions are so numerous that the writer will only give a few of the rare and choice ones. *Conodron ramondoides* is of recent introduction and is one of the best; the flowers are violet blue and the foliage much like *streptocarpus*. *Ramondia pyrenaica*, *R. p. alba*, *R. p. serbica*, *R. p. nathalis* are much prized among alpine lovers; they can be raised from seed and prefer partial shade. The best saxifrages for the rockery are "Fergusonii, *lutea viridis*, *aretoides*, *diapensoides*, *calyciflora* and *Ferdinandi Coburgi*; they all flower in early spring and prefer a sunny position and ought to have a place in every rockery.

Dianthus Warely is a charming rock plant raised in England by Miss Wilmot two years ago. The most suitable campanulas for the rockery are *C. alpina*, *C. G. F.*



Wilson, C. Rainieri, C. Allvini. Seed can easily be procured but seldom true to name, therefore the method is to secure plants from a reliable firm. *Myosotis rupicola*, *Petrocallis pyrenaica* and the hardy *Calceolaria platygenia*, are all rare and interesting rock plants. *Phlox amœna*, P. Nelsoni and P. G. F. Wilson are probably the best of the dwarf phloxes and when allowed to run over the rocks are more effective and more at home than when planted in the herbaceous border.

In order to keep the rockery supplied duplicates of all the most valuable sorts ought to be potted and plunged in cold frames, so that more attention can be given them in the way of watering and propagating. For planting at the margin of shallow ponds *Cypripedium spectabilis* is probably the best. *Orchis spectabilis*, *Caltha palustris* and many others help to make the hardy plant garden more attractive and interesting. *Nymphaea pygmæa*, N. P. *Helveola* are the most suitable water lilies for shallow ponds and convey an impression not imparted by any other class of plants.

David Miller

About Pentstemons

Seems to me that one of the most beautiful of all summer flowering plants is either not known, neglected or forgotten. I mean the *Pentstemon gentianoides* and its varieties. It does not cost as much to raise a pentstemon as it does to raise a geranium. It probably is not as glaringly effective as S. A. Nutt geranium, which is O. K.

The best kinds of Lemoine's latest pentstemons are to me as beautiful as gloxinias, embracing as many colors and without the fragility of the gloxinia. A good common name for these summer beauties would be shrubby gloxinias. It matters not where they are planted, whether in a bed by themselves or in a mixed border, they are equally effective and taking. As a cut flower for inside decoration at this season of the year the pentstemon has no equal.

John Thorpe

Acanthus longifolius



Although the Acanthus family has about sixteen hundred species of plants yet we can count only a few that are hardy in this climate. The reason for this scarcity is that most of them come from warm moist climates. We are more fortunate for greenhouse plants in this family. Strobilanthes, Justicia, Eranthemum, Mayenia, Jacobinia, Mackaya, Thunbergia, Aphelandra, and several others, are fine showy shrubs and climbers which give us a wealth of their beautiful flowers. Most of these plants will grow out of doors during our hot summer months, but in the fall we have to get them into our greenhouses for the rest of the year.

The genus Acanthus has about twenty species which are natives of Asia, Africa and Europe. There are about six species in cultivation in Europe and about half that number in this country.

Acanthus longifolius grows luxuriantly in our garden. At one time we thought this plant was not hardy and used to lift it each fall from the border and put it in a cold frame. About twelve years ago we had a number of plants and thought we would experiment with them. We left half of them all winter in the border. Just as the ground began to freeze we gave them a coating of dried leaves, to keep them from freezing and thawing alternately during the winter. To our great surprise every plant grew the following spring and they have been out of doors ever since that time with just the protection of a few leaves in winter.

This species flowers very freely here as may be seen from the photograph. The flowers are of a purplish color and although they are not as showy as some other perennials yet they possess a quaint charm when in flower which compensates for their peculiar color.

They are fine foliage plants and it is supposed that the leaves of Acanthus spinosus furnished the patterns for the decorations of the capitals of Corinthian columns. When the plants are in flower they attain a height of from three to four feet.

Acanthus mollis and its variety latifolius are hardy with slight protection of leaves or litter in winter, but they do not flower as freely as A. longifolius.

Other species that might be tried further south where the climatic conditions are more congenial are candelabrus, hirsutus, Schottii, spinosus and its variety spinosissimus.

They love to grow in a warm sunny position with plenty of light, and when given a deep, rich, light soil they grow vigorously and give an abundance of flowers. They do best when planted in the spring as they get well established before the winter. They are increased by division in the spring or from seed.

Robert Lamm

Roses Under Glass

SEASONABLE CULTURE

It is said that there is no greenhouse specialty which requires so much skill as the growing of roses and it is just at this particular season that we are inclined to believe this assertion. The excessive heat and the lavish use of water, call for unerring judgment on the part of the grower in order to keep the plants in a healthy growing condition and to avoid that rank, yellow, soft growth, at once so undesirable and unpleasant to the eye. Any neglect in cultivating, tying, disbudding, syringing or ventilating at this season will be certain to cause trouble, and however well we may treat the plants afterwards, the ground thus lost will be difficult to recover.

Constant cultivation is a wonderful incentive to vigorous growth, and should be practiced until the feeding roots begin to approach the surface of the soil, when further cultivation would be injurious. In soils which are deficient in calcareous matter—many rose soils are—an application of air-slaked lime, sprinkled on the soil previous to stirring, will help to strengthen the stem and give tone to the foliage. Ventilation will require to be carefully attended to, and especially at night, when, with sudden fluctuations in the temperature, any laxity in the proper administration of air may nullify all our work and efforts during the day.

As the season advances and the nights begin to cool, our heating apparatus should be thoroughly inspected and if need be, repaired, so that we can with safety apply heat on short notice and, as we may soon expect the outside temperature to fall below 60 degrees, when firing becomes a necessity, it is advisable to be fully prepared to meet just such emergencies.

TRAINING AND DISBUDDING

Sufficient attention should be given to training, so that the plants may be in good shape before the first crop matures. By allowing the young shoots to trail all over the bench, we are inviting the eyes to break weak, which is sure to encourage a luxuriant crop of blind wood, and blind wood unfortunately does not add to the revenue. Tying the shoots neatly to the supports produces symmetry, facilitates syringing, and it also allows free access of the sun's rays to the soil and insures a perfect circulation of air among the foliage.

The work of disbudding should be attended to regularly and carefully, and here is where the skill or knowledge of the grower is tested. There is really no set rule by which one may be guided in this operation. Most growers have their own particular ideas on the

subject and at best we can only select the eye that is likely to produce a good cane, thus securing good, robust wood, with eyes fit to develop future flowering stems.

INSECT PESTS

This is the season when we may look for trouble with caterpillars. One brand in particular dotes on roses and his voracity is quickly made apparent by the absence of foliage in his immediate vicinity. The name of this pest is *Cacacia parallela*, or "Rose leaf roller," so called from the manner in which it draws the edges of the leaves together in the form of a tent in which it lives. Owing to their habits these caterpillars are difficult to reach with insecticides. Handpicking, while a most disagreeable task, is perhaps the only effective remedy.

Mildew, another of our constant enemies, is ever awaiting an opportunity to get in its work, but usually well grown stock does not readily submit to the attentions of this pest.

A light fumigating with tobacco once a week—the weather permitting—will suffice to keep greenfly in check, but will not disturb thrips, and if this pest has gained access to the house it will be necessary to fumigate with hydrocyanic acid gas. This operation should be performed at night and the house securely fastened during treatment. The formula for the preparation of hydrocyanic acid gas was given in *Horticulture* issue of June 22; also a full description of the manner of application.

J. E. Simpson

Education For "Job"

In a recent issue of your New York contemporary "Job" calls me to task for saying that Linnaeus made this world more pleasant to live in. I doubt whether "Job" ever read the life of this wonderful man, for if he had he never would have made such ignorant statements. Never was the old saying, "A little knowledge is a dangerous thing," better illustrated than it is in this instance, and so are also the words of Goldsmith, "The loud laugh bespeaks the vacant mind." I suppose "Job" does not know that Linnaeus's father was a minister and that he wanted his son to follow in his footsteps. Linnaeus firmly objected to his father's wishes. I have no doubt if he had gone to the ministry as his father wished him to, that saintly "Job" and his followers would be ready to credit him with having done some good in this world.

Linnaeus was a great man. He had the courage to tell the truth and decide for himself what his life work should be. He saw and believed in the beauties of this world and came to the conclusion that man's unhappiness on earth is due to his ignorance of nature. A Golden City had no charm for him. Therefore, he staked his chances on this world and had to suffer much for it in his early years. If he had worn the broadcloth his bread and butter would have come to him with greater ease and comfort.

While "Job's" countrymen in Scotland were groping in the dark and preaching about the Bottomless Pit, Linnaeus was teaching and preaching to his people in Sweden about the beautiful things in nature.

Just think for a moment of the wide difference between Linnaeus's creed and what was practiced in Job's

country, and you can easily understand the influence of past generations and environment on men like "Job." He has inherited his narrowness and we have to suffer on that account. It is hard to get one of his make-up to believe in anything else but his own narrow creed, but I propose to try to convince this unfortunate man that there are others besides myself who think that Linnaeus made this world better to live in.

Quoting from the Linnaeus Memorial Address by Edward L. Greene, which was delivered at a joint meeting of the Washington Academy of Sciences, the Biological Society of Washington and the Botanical Society of Washington, at Hubbard Memorial Hall, on May 23, 1907, Professor Greene closes his address with this fine tribute to Linnaeus:

"But they who fully realize what he accomplished in so many different directions to the great and lasting advantage of our science, will be rather disposed to wish that an equal of Linnaeus might soon be born; and might think it well that the natal day of the matchless Swede should be held sacred not only once in each century, but a hundred times in every hundred years."

Dr. N. L. Britton, director of the New York Botanical Garden and president of the New York Academy of Sciences, had this to say of Linnaeus in his address at the dedication to Linnaeus of the Pelham Parkway Bridge over the Bronx River, on May 23, 1907:

"The recognition of the work of famous men is one of the happiest duties of mankind. It stimulates our endeavors and encourages us to make efforts which we would probably not make without their examples before us.

"Today we do homage to a distinguished man of science, and the unanimity with which the scientific societies and institutions of the city of New York join in this tribute is in itself evidence of the value which is placed upon his contribution to natural history.

"The contribution of science to the welfare, comfort and happiness of mankind have made present human life widely different from that of two hundred years ago, and this amelioration of our condition, and the more general diffusion of knowledge has been accompanied by a vast improvement in morality.

The ceremonies of today are worthy of the great naturalist whose birth they commemorate. Societies and institutions all over the world join with us in honoring him, and are represented here by delegates or have transmitted documents expressing their appreciation of his life and labors."

Dr. George Lincoln Goodale, professor of botany at Harvard University, had this to say of Linnaeus in an able article which appeared in the "Nation" of May 23, 1907:

"Linnaeus died in 1778, the last of the naturalists who have attempted to make themselves proficient in the knowledge of the three kingdoms. Since his time, specialization, demanded by the accumulation of materials, has become year by year more minute. There is a special fitness in honoring one who was able early to mark out lines in all directions which, no matter how far specialization may go, must continue to be the lines of progress. No one can safely ignore the rules laid down by the master: Describe with precision and in the fewest terms: To each natural object assign a simple unvarying name."

"Job" is no doubt well posted, as most of his countrymen are in Burns, Scott and the Shorter Catechism, but I am inclined to believe that "Job" in his very narrow acquaintance with general literature has never given proper reflection upon the old saying that "fools rush in where angels fear to tread."

Robert L. Emerson

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HORTICULTURE greets its read-
 ers in a new dress, this week,
 specially made in honor of the
 City of Brotherly Love and the

brethren whose hospitality the Society of American
 Florists and Ornamental Horticulturists is about to
 enjoy. We stand on the threshold of a noteworthy oc-
 casion in the history of the national society. It is now
 twenty-one years since the society met in Philadelphia,
 although once in the meantime the convention has been
 held under the auspices of the florists of that city. It
 was a great meeting, unique in many respects. It is
 pleasant to realize that most of the men active in the
 affairs of the Florist Club of Philadelphia on that mem-
 orable occasion will be again on hand to extend to their
 visitors from all over the Union the right hand of fel-
 lowship, for the ranks in Philadelphia have not been
 depleted to the extent that they have in some other
 cities. We hope that the size of the attendance at this
 meeting will be proportioned to the size of the welcome
 that is in store. No one engaged in any horticultural
 pursuit can afford to absent himself. From a business
 standpoint the advantage accruing from attendance on
 such an occasion is very great. But the man who lives
 entirely for utility is, after all, only a plodder and the
 social and recreation spirit which prompts many to at-
 tend these delightful annual summer reunions of the
 craft is far from being the least of the considerations
 which combine to make conventions successful.

HORTICULTURE extends cordial
 greetings to the trade on this
 most auspicious occasion. The
 S. A. F. convention is, to quite a

large section of the business, the dividing line between
 summer depression and the resumption of activity for
 the new business season. Our advertising pages are a
 good illustration of the wide-awake and sanguine spirit
 that is stirring in anticipation of a fall trade which
 we have every reason to believe will excel any hitherto
 recorded. Next to attending the trade exhibition at
 Philadelphia a careful perusal of the advertisements in
 this paper will afford a comprehensive idea of what
 the best houses in the country have to offer. We hope
 and trust that our readers will do all their buying, as
 far as possible, from the establishments using HORTI-
 CULTURE as a medium of publicity. They can render
 no more practical service to the paper, and as the firms
 herein represented stand among the best in the world
 in every quality of business enterprise and integrity,
 they can do nothing better for their own interests than
 to deal with HORTICULTURE's advertisers. This is
 our third convention number and we know our many
 friends all over the country will be glad to note the
 excellent support it is receiving from advertising houses
 known to keep careful watch on results and whose steady
 patronage is the best sort of evidence that advertising
 in HORTICULTURE pays. There is, however, always
 room for more and we'll get them in course of time.

During the past weeks we have taken
 occasion to call frequent attention to the
 approaching convention and urged upon
 our readers the duty which they owe to
 themselves of participating in this most
 notable event of the horticultural year. We hope that

good results will be in evidence and that not only numerically but in enthusiasm and practical progressive work, the reward for all the unselfish effort of the Philadelphia hosts may be equal to or, if possible, exceed their most sanguine expectations. It is much to be regretted that the narrow-minded, self-deluded individual who sees no use in societies or conventions is by no means extinct. On such argument or persuasion is a waste of good breath or ink, as the case may be. For those who make the effort there is in store plenty of healthy inspiration, enlightenment, and all that goes to prepare and enthuse a man for a telling business policy in the coming season. The S. A. F. has been "a power in the land" and not a few of the many successful florists in different sections are frank to admit that to the Society and the conditions which it has brought about they are indebted for much of what they are enjoying in business prosperity. The history of the Society shows a remarkably consistent adherence to the general policy outlined at the time of its founding. Few organizations there are which in a period of equal length can boast a career so free from aberration or factional unrest as the S. A. F. Its time has been spent in pursuing the objects for which it was founded and it has been from the start a shining example of altruistic purpose and achievement.

Uncle Sam Misrepresented

From the Journal of Horticulture, London, we clip the following:

The United States of North America Department of Agriculture has had a plant collector in Northern China for over a year. The Department is very careful, as we learn, to exact a credit and debtor account for all expenses in connection with its collector's expedition. This makes the work still less enviable to the man concerned, whose duties, one would have thought, would be sufficiently exacting without having to "make ends meet" in such an undertaking as that of collecting strange plants in a strange land. However, the accounts are rendered somewhat in this fashion: Dr.—\$50, expenses to Harbin. Cr.—Obtained grafts of soft-shelled Walnut, which will be of the value of — dollars to the State in a few years. Uncle Sam has the plant-collecting fever at present, and it runs high; but he watches the dollars with great keenness.

Fully satisfied that our esteemed British contemporary was the victim of some misinformation we took occasion to call the attention of Dr. Galloway to this statement which seemed to us to be of sufficient importance to warrant this course. We have received the following reply:

U. S. DEPARTMENT OF AGRICULTURE,
Bureau of Plant Industry.

Dear Mr. Stewart:

The inclosed clipping which you sent me is returned with the statement that there is absolutely no foundation for the statements made in it. I inclose herewith copy of comment made by Mr. Fairchild, our Agricultural Explorer, which is self-explanatory.

Very truly yours,
B. T. GALLOWAY,
Chief of Bureau.

Office of Seed and Plant Introduction and Distribution.
Foreign Explorations.

Washington, D. C., August 2, 1907.

Dr. B. T. Galloway,
Chief B. P. I., Dept. of Agriculture.

Dear Dr. Galloway:

I cannot understand where the Journal of Horticulture got the idea that we were keeping a debit and credit account with Mr. Meyer. The idea is so preposterously ab-

surd that to any sensible man, I mean sensible American, it would be discredited on the face of it.

Yours very truly,
DAVID FAIRCHILD,
Agricultural Explorer in Charge of Foreign Explorations.

We hope our friends across the water will now revise their views concerning Uncle Sam's frugality. They "have another guess coming."

Lovers' Lane



Dedicated to John Westcott of Philadelphia, the vice-president of the S. A. F., and the eloquent exponent of the joys of amatory rambles in Lovers' Lane, Fairmount Park, Philadelphia.

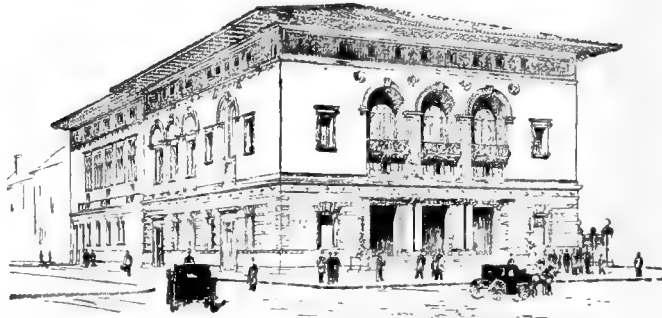
Where birds in hedges blossomy
Their lyric notes repeat,
Till morning drips with melody
Mellifluously sweet;
Where bees from brimming buttercups
Ambrosial nectar drain;
Oh, ho! but let's go loitering;
Oh, hey for Lovers' Lane.

Where ways stretch cool and shadowy,
To lure the laggard feet;
And little winds leap laughingly
Down ranks of rippling wheat;
Where wild bloom pelts the butterflies
With gusts of rosy rain;
Oh, ho! but let's go loitering;
Oh, hey for Lovers' Lane.

Let's leave the clash and clamoring,
The dust and din and heat;
Let's quit the cramping sordidness
And struggle of the street;
For one full day of joyousness
Let's slip the gyves of pain;
Oh, ho! but let's go loitering;
Oh, hey for Lovers' Lane.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

**Twenty-Third
Annual
Convention**



**Philadelphia,
August 20-24,
1907.**

HORTICULTURAL HALL, PHILADELPHIA.

The sessions of the Convention will be held in Broad Street Theatre, opposite Horticultural Hall. The President's Reception will take place here also. The Trade Exhibition will be located in Horticultural Hall, occupying all available space in the building. These two buildings will give splendid accommodations for all departments of the Convention and, with the many hotels of the highest class, located in the immediate neighborhood, it may be truthfully said that the ideal conditions for business and comfort have been arranged with much wisdom and foresight by those gentlemen having the preliminary arrangements in charge. It will be observed that the plan this year provides for a five-days' Convention instead of four days as has been the custom of late years. The large amount of business of importance requiring the Society's deliberation, the anticipated magnitude of the exhibition, the many entertainments, the extensive program of the sporting enthusiasts and the favorable opportunity to visit the large plant growing establishments will, no doubt, fully occupy every minute at the disposal of the visitors and five days will be found all too short.

Opening Session.

The exercises at the opening session on Tuesday, August 20, 2 p. m., will begin with addresses by dignitaries of the State of Pennsylvania and the City of Philadelphia, His Honor Mayor Reyburn having accepted

the invitation to perform this service on behalf of the city. Col. W. W. Castle of Boston will speak for the Society in response to the addresses of welcome.

Regular business will then be taken up, beginning with the address of President Wm. J. Stewart, which will

be followed by the annual reports of Secretary P. J. Hauswirth, Treasurer H. B. Beatty and the State Vice-presidents. Standing committees will then make their reports and miscellaneous business, including communications to the Society will be presented. This session will probably last until about 5 p. m.

Judging Exhibits.

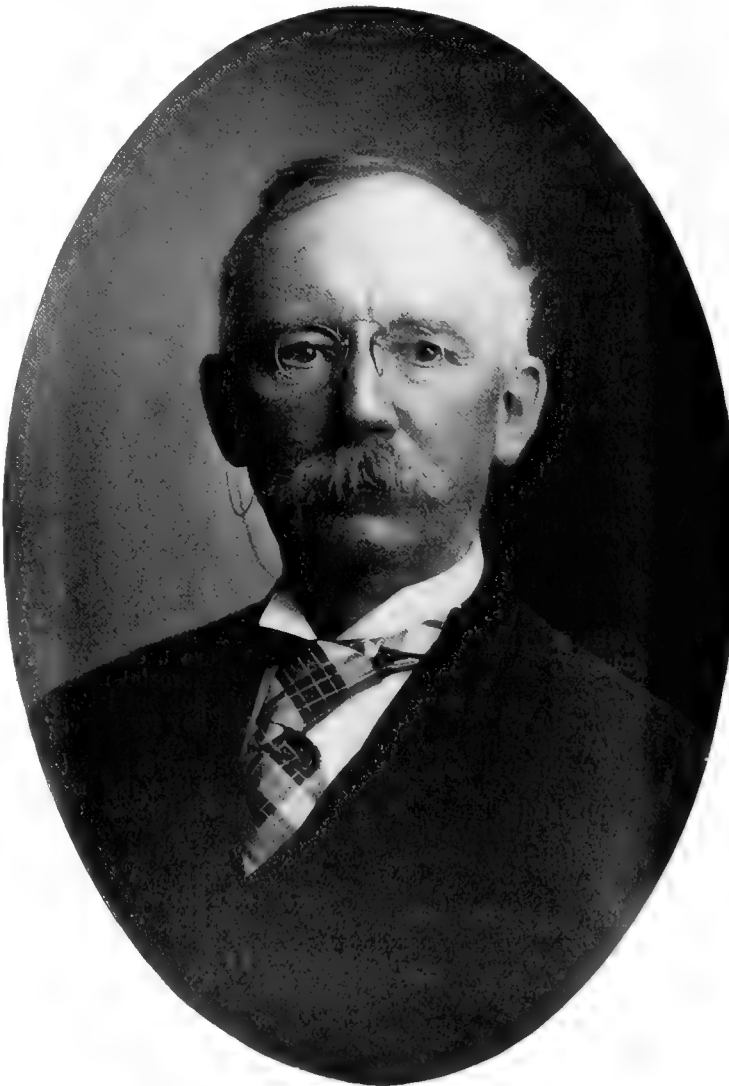
Immediately after the close of the opening session the Judges of fine same and prepare the Exhibits will examine their reports upon the novelties and new inventions in the trade exhibition. Exhibitors having anything on view under this classification must make regular entry thereof with the Secretary in advance, otherwise the Judges cannot pass upon them.

President's Reception.

This, the enjoyable annual "family party" of the Society will take place at 8 p. m. on Tuesday on the stage of the Broad Street Theatre. It will be under the auspices of the Florists' Club of Philadelphia and there will be music and refreshments. All members of the Society of American Florists with their ladies are invited.

Second Day, Wednesday, August 21.

This session (also the corresponding one on Thursday) is called for 9.30 a. m. sharp. The trip up the Delaware in the afternoon starts at 1 p. m., and the business of the Society being very heavy it will be imperative that the meeting be called to order promptly at 9.30,



WILLIAM J. STEWART, PRESIDENT.

and members are urgently requested to give their individual aid to this effort to get business finished up by 12.30 p. m., by being in their seats ready for action at the hour named in the notice.

The program for Wednesday forenoon includes the presentation of the reports of the Judges, the selection of the location for meeting of 1908 (the polls being open one hour) and the nomination of officers for the ensuing year. Members having any special interest in any of the above topics will do well to heed the warning as to promptness in opening up business at 9.30 a. m.

There will also be three papers read before the Society at this session, as follows:

Hardy Shrubs How to plant Them, by S. C. Moon, Morrisville, Pa.

Hardy Bulbous and Tuberos Rooted Perennials, by E. V. Hallock, Queens, N. Y.

Bedding Plants—Where and How to Use Them. Alois Frey, Lincoln Park, Chicago.

Trip up the Delaware.

On invitation of H. A. Dreer, Incorporated, the Society will board the Excursion Boat leaving Arch street wharf at 1 p. m. sharp, for a trip up the Delaware River to Riverton, N. J. Invitation cards for this excursion will be given out at the Secretary's office in connection with the signing of the Registry Book



JOHN WESTCOTT, VICE-PRESIDENT.

which all members should sign immediately on arrival in Philadelphia. Full particulars of this trip and other local hospitalities will be announced from the platform from time to time.

Shooting Tournament.

The team and individual Shooting Contest will take place at the Florists' Gun Club Grounds, Wisconsin, on Wednesday afternoon. A. B. Cartledge, 1514 Chestnut street, is in charge of this event.

On Wednesday evening at Broad Street Theatre an Illustrated Lecture will be given by J. Otto Thilow, the subject being "The Flora of Yellowstone Park and Puget Sound."

Following the Lecture the discussion of the President's Address will be taken up and in connection therewith special committee reports will be made.

Third Day, Thursday, August 22—Election Day.

The morning session on Thursday will be devoted to papers and discussion on educational topics, papers to be presented as follows: Horticultural Education in the

Common Schools, by E. V. Hallock, Queens, N. Y.

Horticultural Education in Agricultural Schools, by Theo. Wirth, Minneapolis, Minn.

Horticultural Education by Horticultural Societies and Clubs, including a review of the work of the Boston Landscape Class, by John K. M. L. Farquhar, Boston, Mass.

Balloting for election of officers will begin at 10 a. m. and continue during discussion of the above subjects, the polls being kept open one hour, and until all legal voters in line at that time shall have had an opportunity to cast their votes.

On Thursday afternoon the visiting ladies will be entertained at Willow Grove.

Thursday evening will be devoted to a discussion of miscellaneous topics, including the proposed National Flower Show, and to a series of "2-minute talks" by members on various subjects of general interest.

Fourth Day, Friday, August 23—Philadelphia Florists' Day.

The Society will be the guests of the Florists' Club of Philadelphia. Start will be made at 10 a. m. for Belmont Mansion, Fairmount Park. Full details will be announced from the platform at the regular sessions.

Bowling Tournament.

The Bowling Tournament will take



H. B. BEATTY, TREASURER.



P. J. HAISWIRTH, SECRETARY.



Horticultural Hall.

Academy of Music.

Bellevue-Stratford
Hotel.

City Hall.

North American
Building.

Hotel Walton.

Broad Street Theatre.

BROAD STREET, PHILADELPHIA, NORTH FROM SPRUCE.

place on Thursday, beginning at 1.30 p. m., the inter-city team match being rolled at the Terminal Alleys and the individual bowling and ladies' match have been provided for at other alleys of which due notice will be given.

The following remarkable list of prizes is offered for competition in the various classes:

Men's Team Prizes.

Kasting cup, Whilldin cup, Michell trophy, silver cup, 3rd prize. The Philadelphia cup, for teams making highest total score in three games (excluding Philadelphia) to belong to team winning it at this tournament; silver cup, to man making high individual game; silver cup, to man making high three games; silver cup, to man making greatest number of strikes; silver cup, to man making greatest number of spares. To each member of team making high total score, Gillette safety razor; to each member of team making second high score gold cuff buttons; to each member of team making third high score, gold and jade scarf pin. Individual championship medal, to be competed for by the man from each team who makes the highest total score for his team, in the three tournament games, to be bowled for at the close of the team contest.

Ladies' Team Prizes.

Open to teams of ladies, who must be wives or daughters of members of the S. A. F., five members to each team, to bowl under the name of the Florist Club of which their husband or father is a member. First prize silver cup; second prize silver cup. To each lady on winning

team, silver chain purse; to each lady on second team, silver belt buckle. To lady making highest total score in two games, silver cup; to lady making highest score in one game, silver cup.

(Continued to page 209)



WILLIAM GRAHAM
Chairman S. A. F. Sports Committee.



DAVID RUST
Superintendent of Exhibition.

SOCIETY OF AMERICAN FLORISTS

YOU ARE INVITED to visit us during convention week, any day at your convenience.

ANDORRA presents a unique Nursery—six hundred acres of hilly land, containing over three hundred and fifty acres of **Ornamental Trees, Shrubs, Vines, and Perennials**. Our **Location** permits us to grow many varieties both in deciduous and evergreen trees and shrubs that cannot be grown to advantage North or South of this latitude, and thus adds to our extensive collection many desirable and decorative plants.

ANDORRA has been called **The Modern Landscape Nursery**. The lay-out of our land, with its hills, valleys and woodland, permits the planting of trees and shrubs in natural positions, thus affording planting suggestions at every turn.

ANDORRA is easily and quickly reached from the Convention (Horticultural) Hall by the Pennsylvania Railroad from Broad St. Station (at Broad and Market Sts.) to Chestnut Hill Station; then by trolley, which passes the depot, to the City Line. Our office is one block from the trolley terminus at the City Line.

REMEMBER, this is a personal invitation to **YOU**.

A Few Penna. R. R. Trains.

Leave Broad St.			L'v'e Ch'tnut Hill		
A.M.	A.M.	P.M.	A.M.	P.M.	P.M.
7.25	9.25	1.25	10.15	1.15	4.15
7.55	10.25	2.25	11.15	2.15	5.15
8.25	12.25	3.25	12.15	3.15	6.15

Trains each way every half hour.

WM. WARNER HARPER, Prop. of

ANDORRA NURSERIES

Bell Telephone
CHESTNUT HILL 225

CHESTNUT HILL, PA.

PREPARE FOR CHRISTMAS

Novelties always sell during the holidays. If you have not already grown them, try some Pink or Rose **SPECIOSUMS**. If potted in July will flower for Thanksgiving and Christmas. Always useful either for cut flowers or plants. Ask the leading florists in Pittsburgh, Cleveland, Detroit, Buffalo, or around New York City. Order today. Will ship any time. Cold storage *Lilium longiflorum*s take about two months to bloom from time of potting; *speciosum*s from five to six months, so that *longiflorum*s wanted for Thanksgiving and Christmas should be planted about Oct. 1, and *speciosum*s in July.

ALL CASES ARE REPACKED BEFORE SHIPMENT

<i>Lilium Speciosum Rubrum</i>		Per 100	Per 1000	<i>Lilium Speciosum Melpomene</i>		Per 100	Per 1000
8 to 9 inch bulbs, 200 in case	.....	8.00	75.00	8 to 9 inch bulbs, 200 in case	.....	9.00	80.00
9 to 11 inch bulbs, 150 in case	.....	12.50	110.00	9 to 11 inch bulbs, 150 in case	.....	12.00	115.00

Full Cases Sold at 1000 Rate

ARTHUR T. BODDINGTON, 342 West 14th St., New York City

Peonies Phloxes Irises

FOR SEPTEMBER PLANTING

Our collections have been selected with the greatest care and include the choicest and most distinct varieties.

Peonies, 50 Varieties—Phloxes, 12 Varieties—Irises, 25 Varieties

Orders booked now—list of varieties and prices on request.

ELLWANGER & BARRY

Nurserymen—Horticulturists

Mount Hope Nurseries, Rochester, N. Y.

In writing to Advertisers kindly mention Horticulture

Richmond, Indiana, New Rose RHEA REID THE RED BEAUTY

(American Beauty X a Red Seedling)

As double as Bridesmaid and as free.
As red as Richmond and as fragrant.
As big as Beauty and as vigorous.
As easy to grow as Bride and quite as continuous in bloom.
Long and stiff of stem; with a grand appetite for rich food.
A perfect constitution which resists both mildew and black spot.

This splendid American will go to the trade March 1, 1908.
We recommend it as the freest of Winter forcers, and also as a perfect Summer bloomer.

Orders already booked for over 35,000.

\$30.00 per 100 \$70.00 per 250 \$250.00 per 1000
(500 at thousand rate)

The E. G. HILL CO., RICHMOND, INDIANA.

"ARISTOCRAT"

that does it for us and will do as much for you.

30,000 nice bushy plants ready for immediate delivery. \$12.00 per 100; \$100.00 per 1000.

	per 100	per 1000
White Lason	\$7.00	\$60.00
Lieut. Peary	7.00	
My. Maryland	7.00	
Fair Maid	6.00	
Helen Goddard	7.00	

	per 100	per 1000
Cardinal	\$6.00	\$50.00
Skyrocket	6.00	50.00
Jessica	6.00	50.00
White Perfection	8.00	75.00
Abundance	6.00	

	per 100	per 1000
Daybreak Lawson	\$8.00	\$75.00
Flansee	6.00	
Candace	6.00	
Red Riding Hood	12.00	100.00
Red Lawson	6.00	
Variegated Lawson	6.00	50.00

CHICAGO CARNATION CO., A. T. PYFER, MGR. JOLIET, ILL.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

SITUATIONS WANTED

WANTED—Situation by young man to do landscape work or as foreman of a private place; has graduated from an agricultural school and has had four years experience. Address S. T., care of HORTICULTURE.

WANTED: By middle of September, young man of refinement and good address as clerk in florist's store in suburb of Boston. Will be required to purchase stock and have general charge of store. First class references required. Address P. O. Box 3657, Boston, Mass.

FOR SALE

A BARGAIN

Two Hitchings Boilers SECOND-HAND
3000 feet 2-inch pipe IN GOOD ORDER

For Price Apply to

W. J. STEWART, 11 Hamilton Pl., BOSTON

Useful boiler for sale cheap. A No. 5 Lord's Horticultural boiler in good condition. Am replacing with a larger one and will sell at a bargain. R. E. Hannaford, Portsmouth, N. H.

A hot water ARCO Boiler capable of heating 2,500 square feet. Will be sold at half price; also a 3-ton Remington Refrigerator Ice Machine, in good direct expansion and 7 1/2 h. p. C. & C. electric motor at a bargain. All in perfect running order and guaranteed for one year. Reasons for selling—too small for our increasing business. Address S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.

BAMBOO CANES TOUGH AND STRONG

6ft long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO. - 50 Barclay St., New York

LILY BULBS

St. David's Island Harrissi

5 to 7 \$4.50 100
7 to 9 \$8.50 100

Wm. Elliott & Sons
201 Fulton Street
NEW YORK

To members of the Florists' Hail Association

The annual meeting of the Florists' Hail Association of America, will be held at the Broad St. Theater, Philadelphia, Pa., at 3.30 P. M., on Thursday, August 22nd, 1907. All members are expected to attend. JOHN G. ESLER, Secy.

You will find something worth reading on every page of HORTICULTURE.

Field-Growing Carnations.

We have for sale and now ready for delivery, extra quality Plants of the following varieties:

Beacon, Victory, Robert Craig, Harry Fenn, Nelson Fisher, Red Sport, Rose Pink Enchantress, Enchantress, Fair Maid, White Perfection, Queen, Variegated Lawson, Variegated Patten, Variegated Glendale.

We invite inspection. Prices reasonable. Address

Sheppard Garden Carnation Co.,

292 Fairmount St., LOWELL, MASS.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Field Grown Carnations

Fair Maid, Queen, Lawson

\$6.00 per 100 \$50.00 per 1000

Paul E. Richwagen, Needham, Mass

(Continued from page 208)

Men's Individual Tournament.

Open to all members of the S. A. F. except those who bowl on the Club teams. First prize, silver cup; second prize, traveller's clock; third prize, silver and leather flask; fourth prize, sole leather suit case; fifth prize, Waterman fountain pen, gold mounted.

Ladies' Individual Tournament.

Open to all wives and daughters of members of S. A. F., including those who bowl on teams. First prize, solid silver compote; second prize, traveller's clock; third prize, solid silver pocket book; fourth prize, solid silver bon-bon dish; fifth prize, solid silver belt buckle; sixth prize, cut glass water bottle; seventh prize, silver and glass cologne bottle; eighth prize, cut glass fruit bowl; ninth prize, cut glass olive dish; tenth prize, cut glass cruet;

The Exhibition.

The Trade Exhibition which is to be held in Horticultural Hall promises to be one of the finest ever presented by the growers, manufacturers and dealers for the inspection of the florists



INDEPENDENCE HALL.

of America. Everything from a corsage pin up to a mammoth greenhouse boiler and greenhouse structure will be on exhibition and sale. This in itself will be of as much, possibly more, value to anyone engaged in horticultural pursuits and florist work as a whole world's fair and as well worth the cost of attendance from a strictly business standpoint alone.

Office of HORTICULTURE.

The office of HORTICULTURE will be located on the left of the main stairway on the first floor of Horticultural Hall.

Visitors will find an attendant present during the day and can arrange for subscription, advertising or other business with Horticulture Publishing Company. A telephone will be in-



GEORGE C. WATSON

Horticulture's Philadelphia Representative



J. WILLIAM COLFLESH

Treasurer Florists' Club of Philadelphia stilled for the convenience of our friends and any information or possible courtesy will be forthcoming to all in need of same. A complete file of HORTICULTURE for the past year will be on hand and also a supply of free copies of this Special Convention Number. Give us a call.

Reception at H. Bayersdorfer & Co.'s.

On Thursday afternoon, August 22, from 12 to 4 o'clock, the roof of the new establishment of H. Bayersdorfer & Co. will be open for the reception and entertainment of the visiting florists who are invited to come and enjoy themselves.



BIRD'S EYE VIEW FROM LEMON HILL, FAIRMOUNT PARK

During Recess

*"Hang Sorrow; care will kill a cat
And therefore let's be merry."*

Detroit Florists' Club Picnic.

A party of nearly 200 Detroit florists took a day off last Friday and boarded the excursion steamer for the beautiful resort Bois Blanc. The idea of gathering together all those of the local craft, whose sole aim is to work among Flora's children for the benefit and higher elevation of mankind, like one great family, was well appreciated and still better carried out. A regular family reunion which also embraced such noble representatives as Harry Bunyard of New York, F. Boeringer of Bay City, and other guests.

Those eager to show their prowess at the national game did not waste much time at the lunch basket, but got an early start at the ball game, which was followed by many other athletic events. Mr. Knope acting as umpire between the East and West Side team kept such a sharp eye on the players that now he is nursing badly inflamed eyes. The laurels went to the East Side.

Other winners of prizes were:

Ladies' race—1st, Miss Fay; 2d, Miss Hutter.

Boys' race; under 16 years—1st, Rob. Damerow; 2d, Henry Greeman.

100 yard dash—1st, Louis Charvat; 2d, Andrew Ferguson, Jr.

Three-legged race—1st, Fred Miesel; 2d, H. Beard.

Fat man's race—1st, Fred Pautke; 2d, H. A. Bunyard.

Running jump—1st, Robt. Watson; 2d, Louis Watson.

Girls' race; under 10—1st, Marjorie Hedder; 2d, Mildred Hilcher.

Boys' race; under 10—1st, Chas. D. Burrell; 2d, Rob. Burrell.

Tug of war—H. Smith's team.

A. T. Boddington made a special donation of 2 boxes of cigars to the losing team. Frank Holznagel furnished the \$5.00 gold piece for the winning ball team. Mich. Cut Flower Co. donated three knives. The balance of prizes were purchased by the local club.

Between dancing or swimming and athletics, the shop was completely forgotten and still all went home wiser and better men.

Great credit for the success of the outing is due to the ever ready, unselfish solicitude of Wm. Brown, Fred. Beard and Robt. Rahaley.

FRANK DANZER.

PERSONAL.

Prof. C. S. Sargent has returned from his trip to England.

R. Turnbull of Montreal, Can., has taken a position with the Mt. Royal Cemetery Co.

C. L. Howe of Dover, N. H., reached Liverpool on August 4. He will spend a month in England and France seeking health.

Visitors in Boston: S. J. Reuter and Louis J. Reuter, Westerly, R. I.; Julius Roehrs, Jr., Rutherford, N. J.; U. G. Scollay, Brooklyn, N. Y.

THE DREER SEED STORE, PHILADELPHIA.



We give a view herewith of the interior of the Dreer seed store. The Dreer organization has a world-wide fame. Every department is presided over by an expert, of whom none got there by accident. A life time's experience, a keen, well-trained mind broadened by education at home and abroad, and the inherited experience of his forefathers enabled William F. Dreer to perfect this model organiza-

tion and put the right man in the right place.

While not so showy as the magnificent growing establishment at Riverton, which will be the Mecca of every visitor during convention week, the seed store and headquarters at 714 Chestnut street is well worth a visit. The heads of departments are as follows: Plants, J. D. Eisele; seeds, J. Otto Thilow, G. D. Clark and W. H. McKubbin; accounting, J. D. Tull.

HOUSE OF COCOS WEDDELLIANA.



Here is a picture of a subject very difficult to convey in a photograph. We have long wished to do so, but this is the first approach to a decent picture. However, it must be seen to

be appreciated, and all the convention visitors will have a chance of seeing it next Wednesday on the occasion of the visit to the Dreer establishment at Riverton, N. J.

HENRY A. DREER, Inc., 714 Chestnut St., Philadelphia, Pa.

Seed Trade

A rumor that Mr. John Lewis Childs had sold his property at Floral Park and would move to Northport, L. I., proves to be incorrect. Mr. Childs has sold part of his real estate but his general plant and the grounds immediately surrounding are still his property, and it can be said with authority that he does not even contemplate moving. His name is so thoroughly identified with Floral Park, that considered as a business proposition, it would undoubtedly prove a most unwise move. The name "Floral Park" is not only identified with the name of John Lewis Childs, but also with the plant and seed business, and Mr. Childs' removal would afford a fine opportunity for an enterprising man to start a rival business. But we may rest assured that this important point would not escape the notice of so sagacious a man as John Lewis Childs.

The past week has on the whole been favorable for most crops, although two or three nights were unreasonably bad, a warning that autumn is close at hand. Still the days were warm, and the only drawback now is lack of moisture. A good rain is greatly needed.

Recent quotations from California growers of onion seed confirm the opinion expressed in June, that reports of damage to the crop which were so alarming last spring, were greatly exaggerated. The writer saw letters from a responsible grower stating that the total California crop this year could not exceed 300,000 pounds, and another grower put his figures as low as 150,000 pounds. Now it is said the growers will deliver from 75 to 80 per cent. of yellows, 65 to 75 per cent. of reds, 50 to 60 per cent. of white Globe and white Portugal. It will be a long time before the general trade is again greatly alarmed by reports of short crops from California. Those enterprising gentlemen will need to produce proof next time.

Those seedmen who are heavy dealers in bulbs are very busy, but the trade otherwise have little to do, excepting to make such preparations for next season's business as their facilities permit. Reports generally agree that seed stocks were sold down pretty close last season, and even jobbers are many of them dependent on this year's crops on many items. Empty bins are the rule among retailers, and even with fair average crops, prices should rule firm and higher than usual. There is nothing on the seedman's horizon to cause anxiety excepting possibly too great a shortage in a few lines. A moderate shortage in contract deliveries is much better for the trade than full deliveries, a point which very few seedmen will fail to comprehend.

The crop report from Sluis & Groot, Enkhuizen (Holland) indicates that although last winter was not exceedingly severe in Holland the frequent and sudden changes of temperature wrought havoc among all biennial subjects and even those perennial plants which usually stand the winter

very well have suffered very much. Among those that suffered very heavily were cabbages, turnips, chervil, kohlrabi, parsley and rutabagas.

A very cold and rainy spring has made growing crops, generally speaking, three or four weeks behind. Especially for late ripening articles, such as beans, the crop prospects are far from being promising.

Flower seeds are reported as also very backward owing to the cool weather which prevailed until now. The consequence is that a great many sorts have only poorly developed, but this will not prevent an average crop if warm weather sets in very soon.

While Boston and, in fact, the greater part of New England has been suffering from lack of rain all summer, it is interesting to read that in Aroostook County, Maine, the great potato country, the rains throughout the summer have been frequent and heavy, and as a result the potato fields are soaked with moisture and the people are praying for dry weather to save the potato crop. Aroostook County's potato crop amounts to 15,000,000 to 18,000,000 bushels a year.

SEED ADULTERATION.

Extract from remarks of W. D. Ross, chairman of Committee on Experiment Stations, before the American Seed Trade Association.

This subject has been well covered by the special committee, but as several experiment stations are responsible for seed laws treating on this sub-

PHILADELPHIA'S LEADING SEED HOUSE

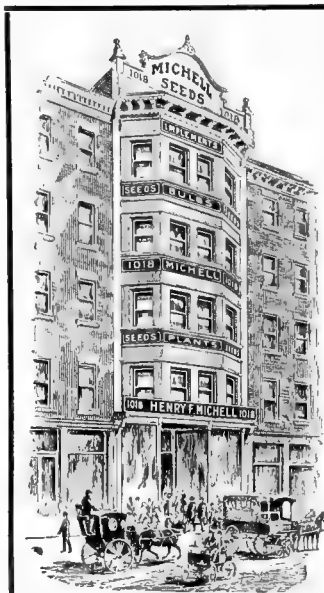
Makes a specialty of supplying the Florists' needs in

**SEEDS
BULBS
and
SUNDRIES**

Our New Wholesale Catalogue Is Ready

HENRY F. MICHELL CO.

1018 MARKET STREET, - PHILADELPHIA



ject, and as others are considering the matter, I deem it advisable to make mention of this matter here, for it is well to be on our guard, for we shall surely have trouble in the near future if we allow our law makers to go on unmolested without being watched. Simply because wheat and tares will grow together in the same field is no sign that we should be accused of adulterating because both are found in our possession. The present system of obtaining samples is unjust and unbusinesslike, and should be changed; as samples are taken now the dealer has no protection whatever, and no opportunity is given him to prove his innocence. Samples of seed should be taken the same as fertilizer, and laws should be made for our protection just as much as for the protection of our customers, and no man has a right to even insinuate dishonesty without he is prepared to prove it. There is no doubt but what mistakes have been made in the past, and innocent dealers have suffered by the negligence of incompetent help, either through negligence or wilful reporting of samples. If individuals did their work as some officials have, they would have suits for large damages on their hands, but under the present law we must abide by their decision, whether it is just or not.

While the Experiment Stations are doing good work and increasing the demand for seed, it must be remembered that dealers are also doing a lot of good along this line, and we should both work together, and every dealer should encourage, as far as possible, the Experiment Station work.

BEST QUALITY FALL BULBS

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent free upon request as soon as issued.

Vick's Superb Pansy Seed

All the best varieties in separate colors.

VICK'S SUPERB MIXTURE, the best strain from all the leading named sorts:

1/4 ounce, 85c; 1/2 ounce, \$1.60; ounce, \$6.00.

JAMES VICK'S SONS, Rochester, N. Y.

REVIEW OF THE SWEET PEAS 1907.

We were unable to say much about the newer varieties of sweet peas last year (1906) on account of the extremely wet and otherwise unfavorable weather. This year (1907) has been much more favorable, and through the kindness of Howard M. Earl, of the Fordhook trial grounds (Messrs. W. Atlee Burpee & Co.), at Doylestown, Pa., who very hospitably entertained the writer and Mr. John Burton on the 11th ult., showing us over the farms and loading us with many courtesies, we are enabled to give some interesting notes:

Henry Eckford, as has already been noted, while a beautiful color is hard to get at its best, as the flowers burn so badly in the sun. To get the true color effect, shading must be resorted to. Ordinary cheese cloth or tiffany is quite satisfactory for this purpose. It is an intensely bright, shining flame colored self, of good size and attractive form.

Queen Alexandra produces a flower of very fair size, of excellent form, being widely expanded and graceful. It is far superior to Scarlet Gem but to some does not appear quite so captivating as King Edward VII., which is larger and bunches more gracefully. Queen Alexandra might be called a "fadeless Scarlet Gem." The color is very intense and it does not fade.

Sybil Eckford is not of a sufficiently strong color to appeal to one as some of the other varieties do. The effect is a rich apricot with a blush shading.

The foregoing were the three sensational importations of last year, and our impartial opinion of same, as will be noted, is rather conservative. We will now take up some of the other new varieties. Watkins & Simpson's list first:

E. J. Castle is a flower of the type of Gladys Unwin, a rosy carmine self similar to John Ingman, but several shades lighter. Mrs. Alfred Watkins does not seem to be fixed as to color as there are at least four different shades of pink. The flowers are quite similar in character to Gladys Unwin. Frank Delby is rather disappointing, the color being too undecided—a sort of rosy lilac lavender shade—neither one thing nor another. Nora Unwin is a pure white, almost identical in form with Gladys Unwin.

On the whole there does not seem to have been any decided advance in the foregoing list. We will now take a look at Eckford's new ones:

Agnes Eckford, soft rose standard with white wings suffused with rose. A thrifty grower, the stems invariably producing three flowers. Mrs. Collier is disappointing as the color is no deeper than that of Mrs. E. B. Kenyon but it is of a different form. This variety might be described as a cream or pale lemon Dorothy Eckford. It was introduced simultaneously by Eckford and Dobbie. Earl Cromer comes very true but unfortunately it burns badly under our hot sun. Standard a purple maroon; wings pale purple bordered with maroon. Large size, form slightly hooded and wings partly curled. Horace Wright is almost a self color; standard claret, wings light indigo. A fine variety for bunching where a dark shade is desired. Very different from Brilliant which is undoubtedly the best dark color in cultivation. Queen of Spain is a shell pink on a cream ground. It comes both in the hooded and the open form.

Some of the other new varieties worthy of mention are as follows:

Enchantress, a variety of recent introduction from England of the Countess Spencer type and together with Paradise (another Countess Spencer selection) is similar in shade to what is known here as "true" Countess Spencer. But—and here is an important "but"—both Enchantress and Paradise produce flowers of enormous size and good color, and either of them will become popular with florists for both inside and outside culture. White Countess Spencer; we were sorry not to have seen this variety (so called temporarily). It is described as a flower of enormous size, pure white, with the wavy effect of Countess Spencer intensified—to say nothing of the immense spread of the wings which thoroughly cover the keel. Helen Lewis is another of the Countess Spencer type. Standard crimson orange, wings orange rose. Bunches well and worthy a place among the elect.

We have omitted to mention a very pretty one introduced last year named Beacon, a very good one, the standard cherry red on cream ground, the wings cream occasionally suffused crimson; also last but not least, George Herbert, one of the largest of the Countess Spencer type—exceeded in size only by the "White Countess Spencer." Standard carmine rose, wings rose pink.

The foregoing notes should be read in connection with and in continuation of our articles of 1905 (issue of July 29th) and 1906 (issue of Aug. 11th).

G. C. WATSON.

Headquarters for

PLANT STAKES CANE STAKES

Long selected stock, thin and wiry, very strong.

	per 100	per 1000	per 5000
Southern... 8 to 9 ft.	75c.	\$6.00	\$25.00
Japanese... 6 to 7 ft.	75c.	5.50	25.00

STEEL STAKES

No. 10 Steel Wire Galvanized

	per 100	per 1000		per 100	per 1000
2 ft. ...	\$0.45	\$4.08	4 1/2 ft. ...	\$1.00	\$9.20
2 1/2 " ...	.55	5.11	5 " ...	1.12	10.23
3 " ...	.65	6.15	6 " ...	1.30	12.25
3 1/2 " ...	.78	7.18	6 1/2 " ...	1.40	13.28
4 " ...	.88	8.16			

No. 8 Steel Wire Galvanized

For Staking American Beauty and other strong and tall growing Roses.

	per 100	per 1000		per 100	per 1000
2 ft. ...	\$0.55	\$5.25	4 ft. ...	\$1.10	\$10.00
2 1/2 " ...	.70	6.50	4 1/2 " ...	1.25	11.50
3 " ...	.80	7.50	5 " ...	1.40	13.00
3 1/2 " ...	.95	9.00	6 " ...	1.60	15.50

MICHELL'S RELIABLE HOSE

Made expressly for hard usage
Ask most any florist about it.

3 Ply per foot 12c. 4 Ply per foot 14 1/2c

Our Advance Price List of Bulbs is Ready.

HENRY F. MICHELL CO.
1018 Market Street
PHILADELPHIA - - PA.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Christmas Flowering Sweet Pea Seed

DIRECT FROM ORIGINATOR.

Christmas Pink, Florence Denzer, white 1-4 lb
75c; 1 lb. \$2.00.

Mrs. E. Wild, new carmine red, 2 oz. 75c. 1 1/4 lb. \$1.50.

These popular Florists' Sweet Peas have been grown by

OVER 3000 FLORISTS

all over the world to the best satisfaction of the most critical growers, and

HAVE NO EQUAL.

Also 10 New Varieties offered for the first time, Salmon, Pink, Blue Purple, Yellow and Variegated in separate colors.

Ask for Descriptive Price List. These new varieties will be ready in September. Sweet pea Directions with every order.

ANT. C. ZVOLANEK
Bound Brook, NEW JERSEY

FARQUHAR'S

—Famous—

CYCLAMEN

Farquhar's Giant White

Farquhar's Giant Pink

Farquhar's Giant Crimson

Farquhar's Giant Blood Red

Farquhar's Giant White

WITH CRIMSON BASE

Farquhar's Giant Salmon

WITH CARMINE BASE

Price of all the above sorts:

100 seeds, \$1.00

1000 seeds, \$10.00

SOW IN SEPTEMBER OR OCTOBER FOR BEST RESULTS

R. & J. FARQUHAR & CO.

6 and 7 South Market St., Boston, Mass.

JOHNSON'S PRIZE WINNER PANSIES

From the World's
Famous Growers

"JOHNSON'S KINGLY PRIZE WINNER PANSIES are the product of the world's leading Pansy Specialists, and absolutely unsurpassed in quality by any strain extant. We offer seed as follows: 1000 seeds 30c.; 2000 seeds 50c.; 5000 seeds \$1; 1/4 oz. \$1.25; 1 oz. \$5. Now ready—Paper White Narcissus, Roman Hyacinths, Bermuda Harrisii, Freesias, New crop Pansy Seed, Cineraria, Calceolaria, Cyclamen, Primulas and other Seasonable Flower Seeds.

OUR NEW FALL BULB CATALOGUE WILL BE MAILED ON REQUEST

JOHNSON SEED COMPANY, 217 Market Street, PHILADELPHIA PA.

GLADIOLUS HARVARD

"The Peer of All Gladiolus"

will be exhibited by us at the S. A. F. EXHIBIT, Horticultural Hall, Philadelphia, Pa., Aug. 20-23.



No florist should miss to see this splendid novelty. Our representative will be on hand to greet our numerous friends and will gladly furnish any information desired.

W. W. RAWSON & CO., 5 UNION STREET Boston, Mass.

ZIRNGIEBEL'S GIANT PANSIES

Fresh Crop

Now Ready

Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNGIEBEL. None genuine unless sold by me.

AUGUSTUS ZIRNGIEBEL, Needham, Mass.

GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.

GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

ALL GIANTS are used in mixing our PANSY SEED

"BODDINGTON'S CHALLENGE" mixture contains all the finest Giant strains—of the leading Pansy Specialists in the world—the Giant self colors, the Giant striped and margined, and the Giant blotched—all carefully mixed in proportion—the finest that money can buy—the finest your money can buy. A florist who has grown it, said "Why don't you call it Defiance!"

Trade pkt. 75c, 1-4 oz. \$1.50, 1-2 oz. \$2.75, oz. \$5.00. New crop ready July.

... Order Now ...

A. T. BODDINGTON, 342 W. 14th St., N.Y. City

PANSY SEED

	Per Oz.
Giant Variety D' Elite	\$10 00
" All colors, for Florists	5 00
" Good Mixed, per lb. \$20.00 ..	2 00
Mme. Perret, rue Gold Medal	5 00

The best for Cut Flowers

BEAULIEU'S HARDY WHITE

ONION Per lb. \$3.00

LETTUCE for forcing and out door variety D' ELITE, CABBAGE, CELERY GREEN and YELLOW, etc. Free Sample on Application.

BEAULIEU, Seedsman

WOODHAVEN, L. I., N. Y.

PANSY SEED

In separate colors and the finest mixture, embracing every conceivable shade and marking and largest flowers. Crop of 1907.

Get descriptive Price-List

FRANCIS BRILL, HEMPSTEAD, (L. I.) N. Y.

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

CABBAGE SEED

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

CABBAGE PLANTS

Early and Late Flat Dutch, Succession and Savoy \$1.00 per 1000, 10,000 and over 80c. per 1000.

CELERY, Golden Self Blanching, Giant Pascal, White Plume, Winter Queen, Golden Heart, \$1.00 per 1000, 10,000 and over 80c. per 1000.
Borecole, Brussels Sprouts, Leek, \$1.00 per 1000.
Lettuce, Grand Rapid, Boston Market, Defiance, \$1.00 per 1000. Moss Curled Parsley \$1.00 per 1000.
My Plants are Fine. Cash with order, please.
SAMUEL W. SHANKLIN, WHITE MARSH, MD.

CELERY PLANTS

100,000 WHITE PLUME

All Transplanted plants. Many rootlets. Unlike those grown in the ordinary way. None better.

500, \$1.50; 1000, \$2.50; 5000 or over \$2.00 per 1000.
Cash with Order

W. B. DU RIE, Rahway, N. J.

ESTABLISHED 1802

Thorburn's Bulbs

BERMUDA EASTER LILIES, ROMAN HYACINTHS AND ALL HOLLAND AND OTHER BULBS
SEND FOR PRICES

Trade Bulb List now ready. PER 1000 SEEDS
Asparagus plumosus nanus seeds.....\$2.25
Asparagus plumosus robustus seeds.... 2.50
New crop Giant Cyclamen seed.

Cold storage Lily of the Valley pips, best possible grade, in cases of 1,000 and 3,000 pips each, at \$12.00 per 1,000.

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place

NEW YORK

Everything of the Highest Grade

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY CO.

32 & 33 So. Market St., BOSTON

BRECK'S International Prize Pansy

Our assortment of best sorts. Fresh seed.

Now ready. Catalogues Free

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

BERMUDA GROWN LILIAM HARRISII AND FREESIA BULBS

PURITY FREESIA BULBS

Ready for Delivery

H.E. Fiske Seed Co., 12 & 13 Faneuil Hall Square
BOSTON, MASS.

BRASLAN SEED GROWERS CO.

GROWERS FOR THE

WHOLESALE TRADE ONLY

SAN JOSE, - - CALIFORNIA

C. C. MORSE & CO.

Address all communications to our permanent address

48 to 56 Jackson St., San Francisco, Cal.

The Largest Seed Growers in the United States

You will find something worth reading on every page of HORTICULTURE.

HARDY ROSES

AMERICAN GROWN--SUPERIOR TO IMPORTED

We have unsold at the present time the following varieties, ALL FIELD GROWN PLANTS, grown in our Nurseries at Rochester, N. Y.

HYBRID PERPETUAL

Anne de Diesbach
Baron de Bonstetten
Clio
Frau Karl Druschki
General Jacqueminot
John Hopper
Mme. G. Luizet
Mme. G. Bruant (Hybrid Rugosa)

Margaret Dickson
Marshall P. Wilder
Mrs. John Laing
Mrs. R. G. S. Crawford
Paul Neyron
Prince Camille
Ulrich Brunner

RAMBLERS

Crimson Rambler
White Rambler
Yellow Rambler
Dorothy Perkins
Baby Rambler
Wichuraiana (The Type)

These plants will be ready for shipment about October 1st. Orders booked now. Price on request.

ELLWANGER & BARRY

Nurserymen—Horticulturists

Mount Hope Nurseries, Rochester, N. Y.

When Attending the Convention

Come to West Grove, Pa.—the home of the Rose. Our place might prove interesting with its seventy green-houses of Roses, Chrysanthemums, Geraniums and a varied assortment of miscellaneous plants including a grand collection of Rex Begonias and Ferns. We have twenty acres of out of stuff—flowering and ornamental shrubs of many kinds, Cannas, Dahlias, Roses, Carnations, etc. All are cordially invited to pay us a visit. Trains leave Broad St. Station Pennsylvania R. R. Baltimore Cent. Div. of P. B. & W. R. R.

The Dingee & Conard Co., West Grove, Pa.

ROSES

Brides \$4.00 per hundred. Bridesmaid \$3.00 per hundred, \$27.50 per thousand.

F. HAHMAN, HARROWGATE LANE, FRANKFORD, Philadelphia.

FOR SALE

200 Lady Gay 200 Dorothy Perkins
200 Crimson Ramblers

Nice Stock in 2½ inch pots, ready for 3½ inch \$10.00 per hundred

F. E. PALMER, Brookline, Mass.

LET US QUOTE

on your wants in Callas, Paper White Grand, Narcissi, 13 cm. up. All Dutch Bulbs, Wood Moss.

D. RUSCONI, 32 West Sixth Street CINCINNATI, OHIO

CANNAS

Be sure to see our display at the S. A. F. Convention

The CONARD & JONES CO. WEST GROVE, PA.

Grading and Pruning.

FINE TREES AND SHRUBBERY
FURNISHED AND PLANTED.

D. ROBINSON'S SONS

Revere Beach Parkway, Everett, Mass

Give Us a Trial on Azaleas.

250,000 fine shaped plants grown exclusively for us by Eugene Verveat De Vos, Swynearde near Ghent, Belgium, in his own gardens. Special prices upon request.
JOHN SCHEEPERS & CO., 4 & 6 Old Slip, NEW YORK.

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Grower of PALMS, FERNS and Other Decorative Stock

NEPHROLEPIS SCOTTII All the Year Round

Rutland Road and East 45th St.
Telephone 2890 Bedford **BROOKLYN, N. Y.**

NEW ROSE-Mrs. Jardine

Will be distributed in March, 1908

Florists coming to Philadelphia in August are cordially invited to visit our Nurseries, and see the habit and growth of this sterling novelty.

Mrs. Jardine was raised by Messrs. Alexander Dickson & Sons of Newtownards, and is in the same class for winter forcing as their previous introductions—Liberty and Killarney.

ROBERT SCOTT & SON, Sharon Hill, Del. Co., Pa.

WHOLESALE TRADE LIST

ASPARAGUS SPRENGERI 5 in. pots, \$2.00 per doz.; 3 in. pots, \$5.00 per 100; 2 in. pots, \$2.00 per 100. Seedlings fr. in flats, 50 cts. per 100

Asparagus Plumosus and Tenuissimus 5 in. pots, \$3.00 per doz.

FERNS Boston, 5 in. pots, \$1.00 per doz.; Scottii & Anna Foster, 4 in. pots, \$2.00 per doz. 3 in. pots, \$0.00 per 100

GROTONS fine plants, 4 in. pots, \$2.00 per doz.

FERNS assorted varieties, 3 in. pots, \$4.00 per 100.

CLEMATIS PANICULATA 3 in. pots, \$4.00 per 100. Strong Seedlings, \$2.00 per 100.

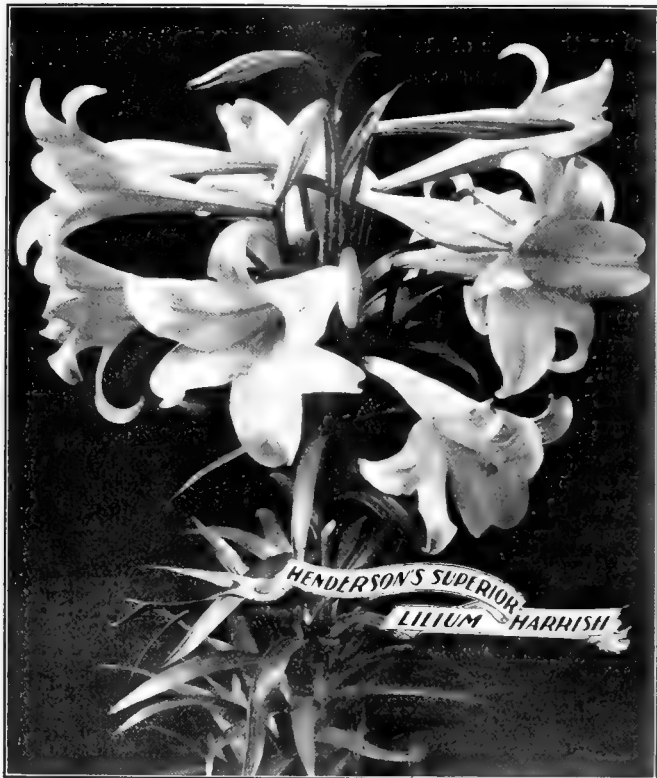
CINERARIA GRDFL. dwarf 2½ in. pots, \$3.00 per 100

CAPE JASMINE 4 in. pots, \$2.00 per doz.

LEMON VERBENAS 3 in. pots, \$4.00 per 100.

CHRYSANTHEMUMS Ivory, Catherine Leach, Mrs. Weeks, 2½ in. pots, \$3.00 per 100

C. EISELE, 11th and Roy Sts., PHILADELPHIA, PA.



HENDERSON'S LILIAM HARRISII BULBS

ARE PRONOUNCED BY FLORISTS
WHO HAVE FORCED THEM

"Superior and Thoroughly Satisfactory"

And our 1907 Crop of Bulbs is the finest and healthiest in several years, growing conditions in Bermuda having been exceptionally favorable this season.

PRICES OF HENDERSON'S LILIAM HARRISII BULBS
NOW READY FOR SHIPMENT

	Per 100	Per 1000
First Size, 5 to 7 in. Bulbs	\$4.25	\$40.00
Intermediate Size, 6 to 7 in. Bulbs	5 00	48.00
Extra Size, 7 to 9 in. Bulbs	8.50	80.00
Mammoth Bulbs, 9 to 11 in.	18.00	175.00

Our Florists' Catalogue of Bulbs, Plants and Seeds for Fall Planting mailed to Florists on Application.

PETER HENDERSON & CO., 35 and 37 Coritlandt Street, **NEW YORK.**

400,000 More Calla Ethiopica Bulbs



Over 472,000 shipped to old and new customers. All orders from now on will be shipped next day order is received. A good many florists are ordering Bulbs to plant after chrysanthemums are pulled out. I prepay freight when cash comes with order. If wanted by express I prepay 2½c. per lb., you pay balance, 25 at 100 rates, 250 at 1000 rates.

Calla Ethiopica, 10 inches circumference	100	1000
" " 9 " " " " " " " " " " " "	\$10.00	\$90.00
" " 8 " " " " " " " " " " " "	9 00	80.00
" " 7 " " " " " " " " " " " "	8 00	70.00
" " 6 " " " " " " " " " " " "	7.00	60.00
" " " " " " " " " " " " " "	5.50	45.00
" " " " " " " " " " " " " "	4.50	35.00
" " " " " " " " " " " " " "	3.50	25.00
" " " " " " " " " " " " " "	2.25	15.00

The above Bulbs will all bloom 1 year.

A. MITTING, 17-23 Kennan Street, SANTA CRUZ, CAL.

Gardenia Plants

Fine Stocky Plants
Out of 3 inch Pots

\$2.50 per doz.; \$15.00 per 100;
\$25.00 per 200; \$120 per 1000.

STUMPP & WALTER CO.

50 Barclay St., New York.

Do Not Miss Seeing Our Exhibition of GLADIOLUS BLOOMS CONVENTION OF S. A. F.

At Philadelphia, August 20-22.

"AMERICA" WILL BE THERE IN ALL ITS GLORY.

John Lewis Childs, Floral Park, N. Y.

DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; prompt delivery.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
ATCO, N. J.

GODFREY ASCHMANN
Importer and Wholesale Grower
and Shipper

of Araucaria Excelsa, Compacta, Robusta and Glauca; Kentia Forsteriana and Belmoreana Azalea, Indica, etc. Cultivator of Boston, Scottii, Barrowsii, Elegantisima and Whitmanii Ferns. Ferns for dishes, Cocos, etc. Write for prices.

1012 Ontario St., Philadelphia

A Cordial Invitation

is extended to all members of the S. A. F. to visit us while on their convention trip, and among other things we will show them

GERANIUMS

in 225 varieties, comprising one of the finest collections in the country. We are 14 miles east of Baltimore, at Cowenton on the B. & O. R. R. or at Chase on the Pennsylvania R. R. Send us word and we will meet you. Our telephone is C. & P. Chase 12-4 Baltimore exchange.

Mr. R. Vincent, Jr., will be at the convention and gladly give you any information you may desire regarding trains, etc.

R. Vincent, Jr. & Sons Co.,
WHITE MARSH, MD.

A. LEUTHY & CO.

Importers and Exporters
Growers and Dealers in

DECORATIVE PLANTS

PERKINS ST. NURSERIES, ROSLINDALE, MASS.

THE S. S. PENNOCK-MEEHAN ESTABLISHMENT.



"The creation of a thousand forests is in one acorn," and the "big stores" of ten years hence are probably the "little shops" of today. But the little shops of today whose owners are not good advertisers will still be the little shops ten years from now.—Exchange.



RALPH E. FAUST
Treasurer S. S. Pennock-Meehan Co.

The mere mention of the names which go to make up the name of this company suggests the thought of sterling business integrity and conservative horticultural stability, for no two names are more closely linked with the best ideals in Philadelphia horticulture for the past half century than are these. The establishment of which exterior and interior views are given herewith is a good example of the possibilities in the wholesale florist business under wise progressive policies. The visitors in Philadelphia will find in its equipment much that is interesting and instructive.

We present also portraits of Samuel S. Pennock, the head of the company and Ralph E. Faust, treasurer. Mr. Pennock is also president of the Florists' Club of Philadelphia this year.



SAMUEL S. PENNOCK
President S. S. Pennock-Meehan Co.



RIBBON DEPARTMENT

NEW BEDFORD HORTICULTURAL SOCIETY.

At the monthly meeting of this society, held on August 12, it was decided to abandon the annual fall show this year, as it was felt that all available material was being used up in the interest of the Old Home Week exhibition, which the society will give free on August 27, 28 and 29.

Two short talks on the peony and herbaceous plants for cut flowers, by A. J. Jahn and James Garthley were followed by an interesting discussion. It was decided to hold the annual clambake on August 22. The schedules for the August show were placed in the hands of the members.

FLORISTS' CLUB OF WASHINGTON.

The August meeting of this club was held at Gude's Hall, on the evening of Aug. 6th. Being "gladiolus night," there were some very fine flowers shown. F. H. Kramer was the only local exhibitor; the other flowers being shipped by John Lewis Childs and Arthur Cowee.

It was decided to hold the chrysanthemum show on the 12th, 13th and 14th of November at either National Rifles Armory or Masonic Temple. Chairman Geo. Cooke presented a schedule to be deliberated upon by the club. The public has every reason to expect a fine show with such a chairman and his fine executive staff, viz. W. F. Gude, F. H. Kramer, Geo. Shaffer, and Geo. Field.

The S. A. F. of the P. M. CO.

SERVICE. Great stress is laid on the accurate filling of orders. Telegrams, phones, messages of all kinds written or verbal, receive the careful attention of competent heads of departments so that no one need feel any hesitation in forwarding hurry up orders. The organization and service are so complete that it is almost impossible for any hitch to occur.

The **PENNOCK-MEEHAN CO.** business combines all important qualifications: organization and equipment; service and knowledge; quantity and quality of stock; and offers itself confidently to the whole country both for the grower to market his products and the buyer to procure his supply of cut flowers, plants and florists' supplies of all kinds.

RIBBON AND SUPPLY DEPARTMENT. The business of this department has been increasing yearly and is now the best equipped of any wholesale florists in the country. New styles, new fabrics, new inventions are constantly being added to the staples so as to bring the stock thoroughly up to date in all respects.

ABILITY. The ability of the organization has been developed along practical lines through years of experience and has been brought by selection and elimination as near perfection as possible. Constant vigilance is the watchword in this department to the end that every employee may by fair but firm treatment show the best that he is capable of not only for his own sake but that of his employer and the public—the interests of all being in the long run identical.

The S. A. F. epitomizes the spirit of mutual co-operation which has made it possible for the florists' business to have reached its present high state of development.

The **PENNOCK-MEEHAN CO.**, with its modern organization for the distribution of the florists' products, epitomizes no less the same spirit—mutual co-operation being the guiding star that has kept the business on its steady upward progress from small beginnings to its present commanding position.

This spirit combined with a thorough knowledge of the customer and his wants, and a sympathetic willingness to help him out in emergencies, affects every detail of the business and accounts largely for its popularity and success.

FACILITIES. The company has the largest and most modernly equipped outfit of any wholesale florist's establishment in the world. The buildings are centrally located being within a stone's throw of Broad Street Station five blocks from Horticultural Hall where the convention will be held this year and having at its command an experience of over twenty years in knowing how to make the best of these facilities for the benefit of both growers and customers. A cordial invitation is extended to all visitors to make this their headquarters during their stay.

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

1608, 1610, 1612, 1614, 1618, 1620 LUDLOW STREET

THE NIESSEN ESTABLISHMENT.



VIEW OF STORE



OFFICE

In the modern growth of the flower trade there are few departments that have shown a more enterprising development in the past ten or fifteen years than the wholesale commission business. The views which we publish herewith of the new headquarters of the Leo Niessen Co., of Philadelphia, give a good idea of one of the best equipped establishments in this line in this country. We congratulate Messrs Niessen on their well earned advancement which has nothing magical about it, but is the result of long foresight, ploughing, sowing, and cultivating the field in an intelligent manner year after year until now the firm enjoys a widespread clientele of growers and customers. No one can say "luck" did it; only shrewdness, hard work and liberal advertising.

The store is 120 ft. deep and the dimensions of the cooling room are 12 x 32; height 14 ft.



COOLING ROOM

PHILADELPHIA NOTES.

On or about November 1st the McKissick business will be located at 1619-1621 Ranstead st., just back of the Pennock-Meehan establishment. The new store will be 51 by 30 first floor and basement and will give the needed facilities for a rapidly increasing business.

J. H. Jones has left the Sellers place at Edgemoor and is now located temporarily in Philadelphia.

The wire design firm of H. Rajsik has been re-organized, the title now being John Rajsik and Bro. Co., with headquarters at 619 North 4th Street. The younger element is now in the saddle and with the best wishes of their elders.

The convention bowling team of the Philadelphia Club will, we understand, be composed of the following: Yates, Polites, Roebertson, Connor, Dodds and Graham.

Nothing further has been heard in regard to the distressing affair of Edward Heacock reported in our last week's issue. Joseph Heacock left Philadelphia on the 9th inst. and was

expected to reach Gold River in British Columbia by the 14th. Very little hope is held out as to the safety of the missing man.

The U. S. Civil Service Commission, Washington, D. C., announces an examination on August 28 for the position of greenhouse gardener in the Bureau of Plant Industry, Department of Agriculture, Washington, D. C., at a salary of \$600. per annum. Only persons who are thoroughly experienced in handling plants under glass are eligible. Application Form 1093 should be asked for by those applying for the position.

Also on September 9 an examination for the position of assistant crop technologist, salaries ranging from \$1,500 to \$2,000, and of crop technologists, salary from \$2,000 to \$3,000. Application Form 304 and special form should be asked for in making application.

MORE WONDERS PROMISED.

It is announced by the publishers that Mr. Harwood will soon perpetrate a new edition of his wonder book about the works of Luther Burbank. It is mentioned as one of the prime attractions of the forthcoming edition that the author will cut entirely loose from the accomplished facts (some of us thought he had already done so) and tell authoritatively what "the Wizard" is going to do in the future. This ought to make good reading and it certainly will be easy writing—for Mr. Harwood especially. A man who finds such rich opportunities for the play of imagination in dealing with what has already come to pass ought to soar out of sight when he casts off the slight ballast of facts which he has hitherto carried. In this connection we may notice the pleasant reviews (inspired by the publishers) of Mr. Burbank's essays on the training of children. As Mr. Burbank is a bachelor he is peculiarly qualified to treat this theme, on which even President Roosevelt has not yet written a book. —Country Gentleman.

THE LEO NIESSEN CO.

**W
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Among the many visits that you will make during the Convention Week in Philadelphia, do not fail to call on us. If you are a buyer and wish to secure a reliable source of supply, or if you are a grower and desire to find a good outlet for your stock, it will pay you to see us.

We have recently increased our facilities to such an extent that we need more business. Yours will not crowd us. We can take care of it with surprising results.

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1209 Arch Street

PHILADELPHIA

FIELD GROWN CARNATION PLANTS

	100	1000
ENCHANTRESS	\$8.00	\$70.00
ROSE PINK ENCHANTRESS	9.00	80.00
NELSON FISHER.....	6.00	50.00
GENEVIEVE LORD.....	6.00	50.00
FAIRMAID	6.00	50.00
DOROTHY	5.00	
JOOST	5.00	45.00
WHITE PERFECTION.....	9.00	80.00
THE QUEEN.....	6.00	50.00

	100	1000
QUEEN LOUISE.....	\$6.00	\$50.00
BOSTON MARKET.....	6.00	50.00
LADY BOUNTIFUL.....	7.00	60.00
ROBERT CRAIG.....	7.00	60.00
FLAMINGO	6.00	50.00
CRUSADER	6.00	50.00
PROSPERITY	6.00	50.00
HARRY FENN.....	6.00	50.00

Strong Healthy Plants. With few exceptions all grown near Philadelphia. Plants ready for delivery. If we have not listed the variety you want, we can probably get them for you.

THE LEO NIESSEN CO.,
1209 Arch St., PHILADELPHIA.

ST. LOUIS FLORISTS VISIT SHAW'S GARDEN.

On last Thursday afternoon the members and their ladies were invited to hold their August meeting at Shaw's Garden, known as the Missouri Botanical Garden, of which the club's president, H. C. Irish, is superintendent. The big rain storm early in the day kept many away, still seventy-five including the ladies, braved the weather, which turned out fine later in the day. President Irish and Wm. Fulgraf of the Garden showed the members over the garden before the meeting opened, which was much enjoyed, the garden never having looked more attractive than at present.

The meeting took place at the end of one of the large greenhouses, which had been shaded for the occasion. Great interest was centred in the election of officers for the ensuing year. Chairman W. C. Smith made a report on the late picnic, on which \$103.80 had been expended.

W. C. Young, State vice-president, reported everything progressing nicely for the trip to Philadelphia and expects to fill the special car. Two applications were filed for membership.

The result of the election was as follows: William C. Young, president; George H. Augermuller, vice-president; A. J. Bentzen, secretary; Fred H. Weber, treasurer; Charles Schoeule, trustee for three years. Several ballots had to be taken on some of the candidates. A vote was also taken on the club's choice for the next State vice-president of the S. A. F. J. W. Dunford, W. C. Smith and C. J. Juengel were the candidates. After five ballots W. C. Smith was declared the choice of the meeting.

The club also recommended to the Garden Edwin Nyden of Kanosha, Wis., for a scholarship in place of Paul Roper who resigned. The treasurer's report showed a good balance to the club's credit. After the meeting the guests were invited to partake of refreshments, which were greatly enjoyed by the fair sex. After again making the rounds of the Garden, of which one never gets enough—especially a florist—the members departed for home, thanking Mr. Irish for his hospitality.



OFFICERS ELECT OF THE ST. LOUIS FLORIST CLUB.

Top Row—Charles Schoeule, William C. Smith and Carl Beyer, Trustees.
Bottom Row—Fred H. Weber, Treasurer; William C. Young, President;
George H. Augermuller, Vice-President; and A. J. Bentzen, Secretary.

GEORGIA STATE HORTICULTURAL SOCIETY.

The Georgia State Horticultural Society convened in Augusta on the 7th inst., with a good attendance. C. P. Pressley, on behalf of the Chamber of Commerce, welcomed the guests; Secretary Wight responded. The address of President P. J. Berckmans followed, and reviewed in a brief but exhaustive way the fruit interests of the state. Prof. J. N. Rogers urged the co-operation of the people to make the agricultural schools a success. After the sessions of Thursday a barbecue was enjoyed by the members.

The Florists' Club of Indianapolis (Ind.), was formed with twenty-six charter members, at the store of A. Wiegand & Sons, on the evening of August 7. Another meeting will be held on September 11 to perfect the organization.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTI- CULTURISTS.

Department of Plant Registration.

The Dingee & Conard Co., West Grove, Pa., submit for registration—Rose President Roosevelt; Safrano X American Beauty; color, bright, satiny pink; flower large, full and double, stiff-stemmed; height, 15 to 20 inches; fragrant; foliage good.

Prizes for Essays.

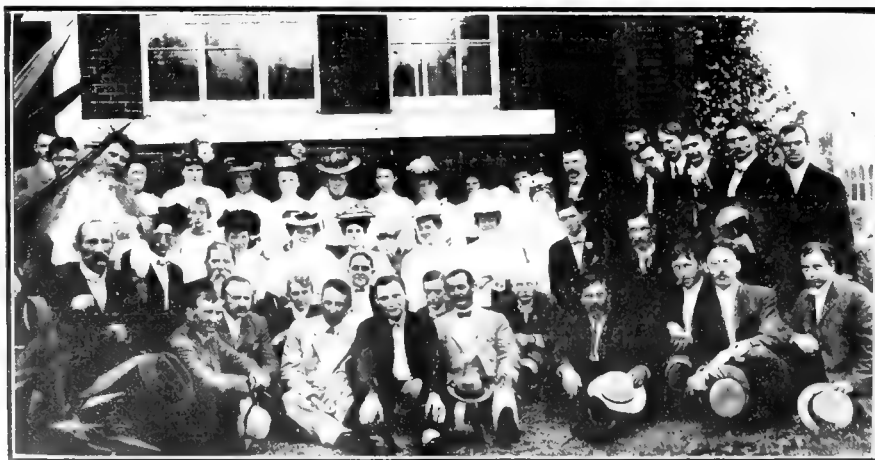
Samuel Murray, of Kansas City, Missouri, offers prizes of \$30 and \$20 for the following essay to be presented at the convention:

COMPARATIVE WORTH IN THE COM- MUNITY AND TO HORTICULTURE AND FLORICULTURE.

First: The man who is a gardener and florist, having a store and conservatory in the city, conducts a high class business, has greenhouses in the suburbs; grows plants and cut flowers for his store; has a good business in spring-bedding plants and does all in his power to increase the sale of hardy perennials, setting forth to his patrons on every occasion possible the beauty and charm of the hardy flower garden plants, shrubs and trees and bulbs in the fall.

Second: The man who conducts a store and conservatory in the city, has a high-class business, but does not have any greenhouses, buying all his plants and cut flowers at wholesale.

P. J. HAUSWIRTH, Sec.



A group of members of the St. Louis Florist Club and the ladies taken in front of the meeting hall at the Missouri Botanical Garden. Many more were present but left before the picture was taken.

The Florists' Hail Association of American, the American Carnation Society, the American Rose Society and several other organizations will hold sessions at Philadelphia during the Convention of the Society of American Florists. Due announcement will be made by their respective secretaries, from the platform.

HENRY M. ROBINSON & CO.

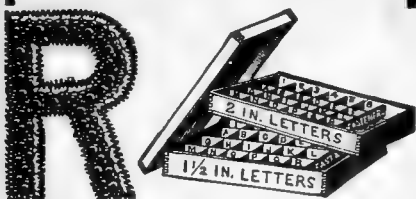
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Fresh Cut Flowers, Cut Evergreen, and Florists' Supplies

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Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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66 Pearl Street, BOSTON, MASS.

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Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada

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ON TELEGRAPHIC ORDER.

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Geo. H. Cooke FLORIST

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Pres.

DENVER, COLORADO

William J. Smyth FLORIST

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Long Distance Phones: Bell, Forest 56; Kinloch, Delmar
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Cut Flowers of BEST QUALITY in season
delivered promptly to any address.

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NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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Cable Address, ALEXCONNELL

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Special Attention to Theatre and Steamer Orders
and reliable deliveries guaranteed

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Deliver orders from any part of the country to
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Send flower orders for delivery in
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NEW ENGLAND POINTS
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1221 Filbert St., - Philadelphia, Pa.

EVERYTHING SEASONABLE IN
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EDWARD REID, Wholesale Florist
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STORE CLOSES 8 P.M.

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Valley, Roses and all Cut Flowers

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MANUFACTURERS
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AMERICAN BEAUTY and all other
ROSES
LILY OF THE VALLEY, CARNATIONS
WELCH BROS., 226 Devonshire St., Boston, Mass.

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CUT FLOWERS
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TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	August 6		August 6		August 13		August 14	
ROSES								
Am. Beauty, Special.....	20.00	to 35.00	20.00	to 30.00	20.00	to 25.00	15.00	to 25.00
" Fan. & Ex.....	15.00	to 18.00	12.50	to 17.00	15.00	to 18.00	10.00	to 12.00
" No. 1.....	10.00	to 12.00	10.00	to	8.00	to 12.00	6.00	to 8.00
" Lower grades.....	4.00	to 6.00	3.00	to 5.00	3.00	to 5.00	.50	to 3.00
Bride, 'Maid, Golden Gate, F. & S..	5.00	to 8.00	4.00	to 6.00	5.00	to 6.00	3.00	to 4.00
" " " Extra.....	3.00	to 4.00	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00
" " " No. 1 & lw. gr.	1.00	to 2.00	2.00	to 3.00	1.00	to 2.00	.50	to 1.00
Liberty, Richmond, Fan. & Sp....	6.00	to 8.00	4.00	to 6.00	5.00	to 6.00	3.00	to 4.00
" " " Lower grades.....	2.00	to 4.00	3.00	to 4.00	1.00	to 3.00	.50	to 2.00
Chatenay, Morgan, Fan. & Sp....	5.00	to 6.00	4.00	to 6.00	5.00	to 6.00	2.00	to 3.00
" " " Lower grades.....	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00	.50	to 1.00
Kaiserin, Carnot, Fan. & Sp....	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00	3.00	to 5.00
" " " Lower grades.....	2.00	to 4.00	3.00	to 4.00	2.00	to 5.00	1.00	to 2.00
Killarney, Wellesley, Fan. & Sp..	5.00	to 6.00	4.00	to 6.00	5.00	to 6.00	3.00	to 4.00
" " " Lower grades.....	2.00	to 3.00	3.00	to 4.00	1.00	to 3.00	.50	to 2.00
CARNATIONS								
Fancy and Novelties.....	1.50	to 2.00	1.50	to 2.00	2.00	to 2.50	1.00	to 1.50
Ordinary.....	.75	to 1.00	.75	to 1.00	1.00	to 1.50	.50	to .75
MISCELLANEOUS								
Sweet Peas.....	.25	to .75	.50	to .....	.20	to .50	.10	to .20
Cattleyas.....	35.00	to 60.00	35.00	to 60.00	60.00	to	35.00	to 60.00
Lilies.....	10.00	to 12.00	10.00	to 12.00	10.00	to 12.00	6.00	to 8.00
Lily of the Valley.....	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Asters.....	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	.50	to .75
Gladioli.....	2.00	to 6.00	2.00	to 6.00	1.00	to 5.00	1.00	to 4.00
Adiantum.....	.75	to 1.50	.75	to 1.00	1.00	to 1.50	.50	to 1.50
Smilax.....	10.00	to 15.00	12.00	to 15.00	10.00	to 15.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	35.00	to 50.00	35.00	to 50.00	.....	to 50.00
" " " & Spreng. (100 bchs.)	25.00	to 50.00	35.00	to 50.00	35.00	to 50.00	15.00	to 50.00

BETWEEN YOU AND ME, What do you think of the Buyers' Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

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FLOWER MARKET REPORTS

BOSTON The extreme heat of Sunday and Monday last had a very enervating effect on all cut flower stock. Much of it collapsed completely on the way to market and all had to be carefully handled and packed away to harden up after being received, otherwise it was useless. There are practically no carnations of the new crop and the few of the old crop being received are of very inferior quality. Asters are very abundant, so also are sweet peas which are coming in from every quarter of the compass. Sweet pears are of extra good quality. A few dahlias are in sight this week. Gladiolus Shakespeare is the finest thing offered in the gladiolus line; nothing else can touch it in price, although, as received in this market, it is worth much more than it brings.

The retailers all **INDIANAPOLIS** report business far better this past July than in previous years. Asters are coming in from all directions. The quality, as a rule, is only fair. Most of the growers have thrown out their carnations and blooms are hard to find. The supply of good Beauties is not large and excellent prices are being realized. There are large supplies of all kinds of lilies. The better grades of gladioli are selling well while the poorer grades are a total loss. Quantities of garden flowers are received but are not readily salable. Tomlinson Hall market trade is reported very quiet.

The supply of all material usually available in August is abundant—too much so for the present or any possible imminent demand. Quality runs rather low on most lines the recent scorching weather being in part responsible. Asters are now accumulating fast with values falling.

Dahlias have commenced to come in regularly. The man with a roll can buy the general run of all kinds of material in original lots at figures that are unquotable.

There is nothing **PHILADELPHIA** new to report as to the market situation. Midsummer dullness continues. Asters and gladioli are very plentiful. Poor aster stock more than usually abundant. There is also a very large supply of roses of poor quality. What few carnations come in are fair. Lily of the valley is good and finds ready takers. Other staples unchanged.

The dull season **WASHINGTON** still continues. The latter part of last week was a little more promising, but the improvement was only temporary. The greater part of the District of Columbia has been benefitted by fine rains.

BUSINESS CHANGES.

C. S. Fouse, of Aitch, Pa., has moved his greenhouse to Mt. Union, Pa.

Fred. O. Richards has purchased the greenhouse on the Davis estate, Gardner, Mass., and will continue the business.

The partnership existing between Messrs. Schroeder & Meyer, Chicago, has been dissolved, but both will continue in business independently.

J. L. Cooper has disposed of his interest in the Winfield Nursery Co., of Winfield, Kan., to J. Moncrief. The name will remain unchanged.

"The creation of a thousand forests is in one acorn," and the "big stores" of ten years hence are probably the "little shops" of today. But the little shops of today whose owners are not good advertisers will still be the little shops ten years from now.—Exchange.

OBITUARY.

George J. Reuter, born in Mainze, Germany, in 1830, died in Pittsfield, Mass., on August 3. Mr. Reuter came to Pittsfield in 1854 and has carried on



THE LATE GEORGE J. REUTER

the florist business until within a few years when he disposed of his greenhouses to R. Engelmann. He is survived by seven children.

Charles H. Wilson, who had conducted a florist's establishment at Gladwyne for 20 years and a stand on Market street, Philadelphia, for many years, died on August 5, aged 80. Three children survive him.

Thomas Campbell, for many years in charge of the Pomeroy estate, Pittsfield, Mass., died at his home in that place on August 9, at the age of 73. Three sons survive him.

Mrs. Julia S., wife of W. A. Herbert, of Wellsville, O., died on July 26, at the age of 56.

George F. Brehmer, of Chillicothe, O., passed away with heart disease.

COMING TO CONVENTION ?

SEE US at Horticultural Hall or at Our New Building. Greatest Line of
FLORISTS' SUPPLIES AND NOVELTIES
J. STERN & CO., 125 North 10th St., above Arch St., PHILADELPHIA

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LARGEST GROWERSA full line of Choice Cut Flower stock for all purposes. Comprises every variety
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ORCHIDS A SPECIALTY**THE HIGHEST
GRADE OF **VALLEY** ALWAYS
ON HAND
CARDENIAS, DAISIES, ROSES AND CARNATIONSJAMES McMANUS. Telephone
753 Mad. Sq. 42 W. 28th St., New York**H. E. FROMENT**Successor to
Wm. Ghormley

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Ready to talk with growers about consignments for coming season

JOHN YOUNG**WHOLESALE FLORIST**Finest American Beauties and
Carnations

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FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

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A Reliable Place to Consign to or order from

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The Reliable Commission HouseRichmond Roses and Rich Flowers
of all varieties**JOS. S. FENRICH**

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SHIP TO
TRY**ME****ALFRED H. LANGJAHR**

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Aug. 10 1907	First Half of Week beginning Aug. 12 1907		Last Half of Week ending Aug. 10 1907	First Half of Week beginning Aug. 12 1907
Roses			Carnations, Fancy and Novelties..	1.00 to 1.50	1.00 to 1.50
Am. Beauty, fan and sp.	10.00 to 15.00	10.00 to 15.00	“ Ordinary .....	.50 to 1.00	.50 to 1.00
“ extra	6.00 to 8.00	6.00 to 8.00	Sweet Peas (100 bunches).....	1.00 to 1.50	1.00 to 1.50
“ No. 1.....	2.00 to 3.00	2.00 to 3.00	Cattleyas.....	20.00 to 50.00	35.00 to 50.00
“ Lower grades .....	.50 to 1.00	.50 to 1.00	Lilies.....	3.00 to 5.00	3.00 to 5.00
Bride, 'Maid, Golden Gate, fan & sp	1.00 to 4.00	1.00 to 4.00	Lily of the Valley.....	1.00 to 2.00	1.00 to 2.00
“ “ lwr. grds.	.25 to .50	.25 to .50	Asters.....	.50 to 1.00	.50 to 1.00
Liberty, Richmond, fancy & special	1.00 to 4.00	1.00 to 4.00	Gladioli.....	.50 to 2.00	.50 to 2.00
“ lower grades ..	.25 to .50	.25 to .50	Adiantum.....	.50 to .75	.50 to .75
Chatenay, Morgan, fancy and spec.	1.00 to 4.00	1.00 to 4.00	“ Croweanum.....	1.00 to 1.50	1.00 to 1.50
“ lower grades ..	.25 to .50	.25 to .50	Smilax.....	8.00 to 12.00	8.00 to 12.00
Killarney, Wellesley, fan. and spec.	1.00 to 4.00	1.00 to 4.00	Asparagus Plumosus, strings.....	20.00 to 30.00	20.00 to 30.00
“ “ lower grades.	.25 to .50	.25 to .50	“ & Spren. (100 bchs.)	10.00 to 25.00	10.00 to 25.00

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Furnish best stock at fair prices all the year round Send for quotations on fall orders

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BRONZE GALAX, \$1.25 per 1000.

SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25

Hammond's Old English Liquid Putty, \$1.25 per Gal. Hammond's Greenhouse White Paint, \$1.50 per Gal.

DISCOUNT ON LARGE LOTS

Give us a trial order on ferns; we are sure we can please you. Headquarters for Florist Supplies and wire work.
Write for price list on cut flowers and supplies.

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Should Auld Acquaintance Be Forgot?

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Cut spikes in any quantity from Selected White and Light Shades; Selected Mixed Colors and Named Varieties of Exceptional Beauty.

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WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	August 13		August 12		August 12		August 12	
ROSES								
Am. Beauty, Fan. and Sp.....	15.00	to 25.00	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00
" Extra.....	10.00	to 12.00	15.00	to 20.00	15.00	to 20.00	12.50	to 15.00
" No. 1.....	5.00	to 8.00	8.00	to 10.00	8.00	to 10.00	6.00	to 8.00
" Lower grades.....	.....	to 3.00	2.00	to 3.00	3.00	to 8.00	2.00	to 4.00
Bride, 'Maid, Golden Gate, F. & S. ....	.....	to 6.00	4.00	to 6.00	6.00	to 7.00	2.00	to 6.00
" " " Extra.....	4.00	to 5.00	4.00	to 6.00	4.00	to 6.00	.....	to 4.00
" " " No. 1 & lw. gr.	2.00	to 3.00	3.00	to 4.00	2.00	to 4.00	2.00	to 3.00
Liberty, Richmond, Fan. & Sp.	4.00	to 5.00	4.00	to 6.00	6.00	to 8.00	2.00	to 4.00
" Lower grades.....	2.00	to 3.00	3.00	to 4.00	3.00	to 6.00	.....	to 4.00
Chatenay, Morgan, Fan. & Sp.	4.00	to 5.00	4.00	to 6.00	6.00	to 8.00	.....	to 6.00
" Lower grades.....	2.00	to 3.00	3.00	to 4.00	3.00	to 6.00	2.00	to 4.00
Kaiserin, Carnot, Fan. & Sp.	6.00	to 8.00	4.00	to 6.00	6.00	to 7.00	4.00	to 6.00
" Lower grades.....	4.00	to 5.00	3.00	to 4.00	3.00	to 6.00	2.00	to 4.00
Killamey, Wellesley, Fan. & Sp. ....	.....	to 6.00	4.00	to 6.00	6.00	to 7.00	.....	to 6.00
" Lower grades.....	.....	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
CARNATIONS								
Fancy and Novelties.....	.....	to 1.75	.....	to 1.75	1.50	to 2.00	1.50	to 2.00
Ordinary.....	1.00	to 1.50	1.00	to 1.50	1.00	to 1.25	.50	to 1.00
MISCELLANEOUS								
Sweet Peas.....	.....	to .25	.....	to .25	.15	to .50	.25	to .50
Cattleyas.....	.....	to 50.00	.....	to 50.00	50.00	to 60.00	50.00	to 60.00
Lilies.....	8.00	to 10.00	.....	to 10.00	4.00	to 15.00	8.00	to 15.00
Lily of the Valley.....	3.00	to 4.00	.....	to 4.00	3.00	to 4.00	4.00	to 5.00
Asters.....	.50	to 2.00	.75	to 1.00	.50	to 2.00	.50	to 1.50
Gladioli.....	2.00	to 3.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Adiantum.....	.....	to 1.00	1.00	to 1.50	.50	to 1.50	1.00	to 1.50
Smilax.....	10.00	to 12.00	15.00	to 20.00	.....	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings.....	40.00	to 50.00	to 50.00	40.00	to 50.00	30.00	to 50.00
" " " & Sprea. (100 bchs.)	to 25.00	20.00	to 30.00	25.00	to 35.00	20.00	to 40.00



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FIRST QUALITY 75c per 1000

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Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dysart, 28 State St., Boston.
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ADIANTUMS

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Adiantum Hybridum, 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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Fall delivery. Our stock will please you.
J. W. Dunford, Clayton, Mo.

ASPARAGUS

C. Elsele.

11th and Roy Sts., Philadelphia, Pa.
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Morel Bros., 624 E. Market St., Scranton, Pa.
Asparagus Sprengerii.

Asparagus Sprengerii, 2 1/4 in.; ready for planting out or into larger pots. \$2.50 per 100; \$20.00 per 1000; 500 at 1000 rates. J. F. Anderson, Short Hills, N. J.

Asparagus plumosus nanus and Sprengerii, 2 1/2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

Plumosus, 2 1/2 in., \$3.50 per 100, \$30 per 1000; 3, 3 1/2, 4, 5 and 6 in., 6, 10, 12, 20, and 30c. respectively. Cormorensis, 2 and 2 1/2 in., 3 and 4c. Sprengerii, 2 1/2, 3 1/2, and 4 in., 3, 8 and 10c. J. W. Dunford, Clayton, Mo.

AZALEAS

John Scheepers & Co., 4 and 6 Old Slip, New York.

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The best commercial varieties. J. W. Dunford, Clayton, Mo.

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Stumpp & Walter Co., 50 Barclay St., New York.

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Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEGONIAS

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.

Begonia Gloire De Lorraine.
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Begonias—Fairy Queen, Gracilis, and other flowering kinds; 3 inch \$5 per 100. Harlowarden Greenhouses, Greenport, L. I.

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BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

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BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

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Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
Cold Storage Lilies.

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Rickards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4 and 6 Old Slip, New York.

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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

Lilium Harrisi and Freesia Bulbs.
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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.
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James Vick's Sons, Rochester, N. Y.
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D. Rusconi, 32 W. Sixth St., Cincinnati, O.
Callas, Narcissi, Dutch Bulbs.

For page see List of Advertisers.

Peter Henderson & Co., 35 & 37 Cortlandt St., New York.

Lilium Harrisi Bulbs.
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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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Chicago Carnation Co., Joliet, Ill.
Carnation Aristocrat.
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John E. Haines, Bethlehem, Pa.
For page see List of Advertisers.
Imperial, Pink Imperial.

Harlowarden Greenhouses, Greenport, N. Y.
Field Carnations.
For page see List of Advertisers.

Strong field plants, Enchantress, Helen Goddard, Red, White, Var., Light Pink, and Pink Lawson at \$6 per 100; Fair Maid, Harlowarden at \$5 per 100. R. D. Kimball, Waban, Mass.

CHRYSANTHEMUMS

Chas H. Totty, Madison, N. J. Chrysanthemum novelties.
For page see List of Advertisers.

The H. Weber & Sons Co., Oakland, Md.
For page see List of Advertisers.

C. Elsele, 11th and Roy Sts., Phila.
For page see List of Advertisers.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting Co., 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums—All good late kinds, standard novelties out of 2 1/2 inch, up to September 1. Harlowarden Greenhouses, Greenport, N. Y.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2 1/2 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Hallday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.

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DAHLIAS

David Herbert & Son, Atco, N. J.
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DECORATIVE PLANTS

A. Lenth & Co., Roslindale, Mass.
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Jullus Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine.
\$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$8.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 8-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

EVERGREENS

Bay State Nurseries, N. Abington, Mass.
Small Evergreens.

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August Ralke & Sons, 31 Barclay St., New York. Small evergreens.

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FERNS

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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.

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Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.

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Stumpp & Walter Co., 50 Barclay St.,
New York.

Ferns in Flats.

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Godfrey Aschmann, 1012 Ontario St.,
Philadelphia, Pa.

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C. Elsele, 11th and Roy Sts., Phila.
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Miami Floral Co., 24 N. Main St.,
Dayton, O.

Boston Ferns.

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W. P. Craig, 1305 Filbert St., Philadelphia.
"Amerphilli."

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Ferns. August prices: Boston and Pelron, 6-in., \$30 per 100; 4-in. \$10 per 100. Stock very strong. J. T. Cherry, Athens, Ill.

FERTILIZERS

Wm. Elliott & Sons, 201 Fulton St., New York.

Clay's Fertilizer.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-3 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.

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G. A. Sutherland Co., 34 Hawley St.,
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Koral Mfg. Co., 26 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St., and
9 Chapman Pl., Boston, Mass.

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The Kervan Co., 113 W. 28th St., N. Y.
Decorative Evergreens.

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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.

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H. Bayersdorfer & Co., 1129 Arch St.,
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J. Stern & Co., 125 No. 10th St., Phila-
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J. Breitmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.

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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.

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Samuel Murray, 1017 Broadway,
Kansas City, Mo.

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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd.,
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P. J. Hauswirth, 232 Michigan Ave.,
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William J. Smyth, Michigan Ave and 31st
St., Chicago.

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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway,
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N.Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

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Washington, D. C.

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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston.

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Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.

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Stumpp & Walter Co., 50 Barclay St.,
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Gardenia Plants.

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Arthur Cowee, Meadowvale Farm, Berlin,
New York.

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John Lewis Childs, Floral Park, N. Y.
Gladiolus Blooms.

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Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury
St., Boston.

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GLASS, High Grade. Double Thick Green-
house Glass. Lord & Burnham, 1133 Broad-
way, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

GRADING AND PLANTING

D. Robinson's Sons, Revere Beach Park-
way, Everett, Mass.

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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Mitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St.,
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Metropolitan Material Co., 1398-1408 Metro-
politan Ave., Brooklyn, N. Y.

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S. Jacobs & Sons, 1365-79 Flushing Ave.,
Brooklyn, N. Y.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-
Iron Greenhouses, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B.
Improved V Shaped Gutter with drip
gutter attachment. Lord & Burnham, 1133
Broadway, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston, Mass.

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The Kervan Co., 113 W. 28th St., N. Y.
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Michigan Cut Flower Exchange,
38 & 40 Broadway, Detroit, Mich.

Fancy Ferns.

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A full line of ferns, galax, and all wild
greens. N. F. McCarthy & Co., 84 Haw-
ley St., Boston.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Bay State Nurseries, N. Abington, Mass.
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T. H. Chivers, Amesbury, Mass.
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In writing to Advertisers kindly mention Horticulture

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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W. W. Castle, 170 Summer St., Boston.
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John A. Payne, 280-274 Culver Ave., Jersey City, N. J.
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Johnston Heating Co., 1133 Br'dway, N. Y.

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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.
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HYDRANGEAS.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
Hydrangeas for Summer Blooming.

INSECTICIDES.

Nicoticle kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.
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A. Leuthy & Co., Roslindale, Mass.
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Joseph Heacock Co., Wyncote, Pa.
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Clipper Lawn Mower Co., Dixon, Ill.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth, 232 Michigan Ave., Chicago.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Atlanta Floral Co., Atlanta, Ga.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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David Clarke's Sons, 2139-2141 Broadway, New York.
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILACS

August Rolker & Sons, 31 Barclay St., New York.
Forcing Lilacs.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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Southworth Bros., Beverly, Mass.
American Arbovita, Spruces, Pines.
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Andorra Nurseries, Chestnut Hill, Pa. Wm. Warner Harper, Prop.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Samuel C. Moon, Morrisville, Pa.
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Salisbury Florist Co., Salisbury, Md.
Euonymus Variegatus.

Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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Selbrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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Jos. A. Manda, 191 Valley Road, W. Orange, N. J.
Orchids, Orchid Baskets, Peat.
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Ordenez Bros., Madison, N. J., Box 105.
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PALMS

A. Leuthy & Co., Roslindale, Mass.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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August Rolker & Sons, 31 Barclay St., New York.
Kentia Palms.

Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Cottage Gardens Co., Queens, N. Y.
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Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

French Peonies. The best collection. All varieties guaranteed true to name. Large stock. Strong plants. Catalogue free. Dessert, Peony Specialist, Chenonceaux, France.

All the new French Peonies grown by a specialist right at home. The best that can be obtained from any source. Everything as represented and no small nursery stock sent out. E. J. Shaylor, Wellesley Hills, Mass.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Hardy Roses, H. T. Roses and Ramblers.
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The Conard & Jones Co., West Grove, Pa.
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Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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Chicago Carnation Co., Joliet, Ill.
American Beauty Plants.
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Robt. Scott & Son, Sharon Hill, Pa.
Rose Mrs. Jardine.
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F. E. Palmer, Brookline, Mass.
Rambler Roses.
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Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

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ROSES — Continued

Rose Plants: 1,000 Meteors, 4-in. pots, 3 1-2c.; 1,000 Brides, 2 1-2-in pots, 2 1-2c.; 1,000 Maids, 4-in. pots, 3 1-2c. Fine stock. Brant Bros., Utica, N. Y.

725 Maids, 200 Ivory, 75 Gates, very strong, in 4 and 3 1-2-in. Just right for benching, \$5.00 per 100, \$40.00 for the lot. Cash. J. W. Dunford, Clayton, Mo.

The beautiful new pink rose, **MISS KATE MOULTON** is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500 \$125.00; 1000 \$200.00; 5000 and upwards \$175 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

SALVIAS

2 1-2-in. Very strong, 2c. J. W. Dunford, Clayton, Mo.

SEEDS

T. J. Grey Co., 32 So. Market St., Boston, Mass.
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Joseph Breck & Sons
51 and 52 N. Market St., Boston, Mass.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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Challenge Pansy Seed.
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H. F. Mitchell Co., 1017 Market St., Phila.
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James Vick's Sons, Rochester, N. Y.
Vick's Superb Pansy Seed.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Richards Bros., 37 E. 19th St., New York.
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Johnson Seed Co., 217 Market St., Phila.
Pansy Seed.
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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.
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C. C. Morse & Co., 48-56 Jackson St., San Francisco, Cal.
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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.
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Augustus Zirngiebel, Needham, Mass.
Giant Pansies.
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Braslan Seed Growers Co., San Jose, Calif.
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Ant. C. Zvolanek, Bound Brook, N. J.
Mignonette Seed.
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Francis Brill, Hempstead, L. I., N. Y.
Garden Seeds.
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Beaulieu, Woodhaven, L. I., N. Y.
Pansy Seed; Vegetable Seed.
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I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

SMILAX PLANTS

J. B. Helss, 112 S. Main St., Dayton, O.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spirea, extra fine clumps in leading variety. F. W. O. Schmitt, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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SWEET PEAS

Ant. C. Zvolanek, Bound Brook, N. J.
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VEGETABLE PLANTS

Samuel W. Shanklin, White Marsh, Md.
Celery Plants; Cabbages.
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R. Vincent & Sons Co., White Marsh, Md.
Celery Plants; Cabbage Plants.
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W. B. DuRie, Rahway, N. J.
Celery Plants.
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Morel Bros., 624 E. Market St., Scranton, Pa.

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Hitchings & Co., 1170 Broadway, N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VENTILATING MACHINERY. New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1183 Broadway, N. Y.

VIOLETS.

5000 clumps California violets, ready now, finest stock in the west, 4 1-2 c. 250 or more at 4c. J. W. Dunford, Clayton, Mo.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilacher's Wire Works, 88 40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

**WHOLESALE FLORISTS
Boston**

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 226 Devonshire St., Boston.
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Buffalo

Wm. F. Kasting Co., 383-87 Ellicott St., Buffalo, N. Y.
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Chicago

Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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E. F. Winterson Co., 45-49 Wabash Ave., Chicago.
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Poehlmann Bros. Co., 35 Randolph St., Chicago.
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WHOLESALE FLORISTS—**Continued****Detroit**

Michigan Cut Flower Exchange, 88 & 40 Broadway.
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J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 W. 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 W. 28th St., New York.
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E. C. Horan, 55 W. 28th St., New York.
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ke, two houses, each 20x350.

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Hanover, Mass.—J. Wm. Beals, one
house.
Columbia, Ill.—F. W. Bruening, two
houses.
Kirkwood, Mo.—H. Gross, six
houses.
Middletown, Ct.—Charles Kieft, en-
larging.
Pittsfield, Me.—A. J. Loder, house
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Wilkes-Barre, Pa.—Ira Marvin, range
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of houses.
New Britain, Ct.—T. E. Bennett, one
house, 20x25.
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der, additions.
Pleasant Hill, Mo.—G. M. Kellogg,
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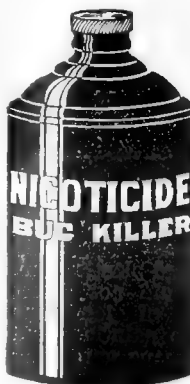
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THE LANDSCAPE GARDENER AND HIS FIELD.

When Mr. Howard read his essay on "The Picturesque in Landscape Gardening" the writer was as interested a listener as perhaps any member of the Boston Gardeners' and Florists' Club.

When pressed in the debate to explain why it was that an artist did not paint a perfect landscape Mr. Howard's defence of the artist's view of the picturesque in imperfect objects was that such objects were more impressive, distinct, and more characteristic and for that reason more artistic. I believe it to be almost impossible for a man working in practice to pick out in a nursery those shrubs and trees which are superior in the above mentioned qualities, and it must be admitted by any practical gardener that these high-sounding definitions in practice do not and cannot mean anything to him. In my opinion Mr. Howard's arguments on and his definitions of the picturesque in a landscape are, to quote his own views on carpet bedding "baker's confectionery", not home-made goods, and "they cannot", to use his words again, "be taken seriously." The writer has read diligently through several books, essays, journals and pamphlets, both American and European, for the last ten months in order to assure himself as to what was really understood among landscape gardeners by "picturesque", yet in all the theories and definitions given I do not find that they have come to any definite understanding.

To what confusion oratory will lead, when used improperly—which is especially the case when you talk to a practical man about the theory of the object under discussion—will be understood, when we find Mr. Howard saying that he entertains opposite views from Downing about the beautiful and picturesque, and then borrowing from the same author the same example to illustrate to his hearers the meaning of picturesque, which Downing used 50 years ago for the same purpose.

Mr. Howard then proceeds to say, that we should study good painters and learn from them. Let me quote from much-read authors on this subject, in order to show, that Mr. Howard's argument that, whatever looks well in a picture would do so in a natural landscape, is not conclusive: Says Tuckermann (Gardens of the Renaissance): "At that time (the time of the renaissance in Italy) the landscape painters got their subjects for pictures in the gardens of the nobleman, although on the other hand, they again influenced landscape gardening, and at no time can the landscape gardener get along without the artist work of painting." Claude de Lorraine and Poussin got their motives of their historic pictures out of parks in and around Rome.

Mrs. Schuyler Van Rensselaer (Art out of doors) says the landscape painter creates his effects by colors, the sculptor by plastic forms, but the landscape gardener must necessarily work with both color and plastic form.

Downing said he could not detect any visible relation of landscape gardening to landscape painting, and other authors in landscape gardening do not mention the landscape painter at all. Mr. Howard's essay says: The

thing is to know your material (by name, or by having grown them and so having got familiar with them?) and then arrange and cast out and add, just as a painter does in composing a great canvas "The plant's object is firstly and mainly its own life." These are the words of another authority in landscape gardening and written to us to warn us away from any mechanical use of the plants in any way or form. But there is a fundamental difference between dead colors to be used at liberty on the point of a painter's brush and a living shrub or tree in the hands of a landscape gardener. In nature a plant's first object is its own life and not its relative value as a color in the landscape picture, and the landscape gardener cannot transfer his object in unlimited manner absolutely subject to his own wishes.

Let me narrate something of a recent trip to Newport. I spent some hours looking at the residences and gardens along the cliff-walk, and while there got an idea of what a landscape "set" in nature like streaks of paint in a picture would probably look like. A landscape gardener was "putting in" a new formal garden on a place not far from Vanderbilt's marble palace. He used considerable box hedges, conifers and rhododendrons, etc. Every bit of the hedge came from an outside nursery, just about as high and thick as it was ever intended to be; piece after piece, box, evergreen, rhododendrons, etc., like mason's walls or carpenter work was "put in", and there was your landscape. Yes, there it was, and there will be your landscape picture garden, but will it swing in the wind, bend in the rain, spread in the sunshine, in one word will or does it live? It does, it will not! because it gives only a "setting" to the house, and that's what it was "put in" there for.

Contrary to Mr. Howard I come to the conclusion that landscape picture gardening would lead up to that artificial French style of gardening which had so great an influence after the renaissance, and is manifested in the gardens of Versailles, with its carpet beds and stage-like "coulisse" scenery. In order to get pictures in the landscape trees and shrubs were at that period used like stage sceneries, one behind the other, to give settings to elaborate fountains, statues, etc., while the front part was made elegant by the famous carpet style flower bed. Of course, today, instead of statues and fountains there would be more natural objects, say a big rocky bank with a flowing stream or lake that is to get a "setting", but that would not make any material difference in regard to the effect of such landscape work in the foreground. In my opinion it is only the old French manner of "staging landscapes" in a new disguise.

Now what we practical gardeners want, if any, is such rules and suggestions about landscape gardening, as have become classical, for only when men have become absolute masters of an art or science, can they safely depart from established methods. Therefore, instead of trying to interest us in probable future fields in landscape gardening, where wild scenery and other values will be taken into con-

sideration, it is, I believe, much more to the point at present that we devote ourselves to established principles and modes of planting and grading. Let us learn what has been done in landscape gardening.

Not every practical gardener who is devoting his spare time and money to become more efficient in landscape gardening can become an Olmsted, and, for that reason, instead of speculating on the picturesque and beautiful in the practice of the future, let us stay among our familiar garden scenery and get light on questions like the following few:

Foliage versus flowers in shrubs and trees; that is, is the value of a tree or shrub to be judged by its comparatively short flower-crop or by its foliage and wood effect all the year around? For instance, is it or is it not bad taste to plant *Hydrangea paniculata* in a position where its "coarse appearance" (vide Parsons: How to improve the home-grounds) will be in evidence most of the time, while its nevertheless magnificent flowering beauty lasts only two months?

Banking versus plain, flat grouping: that is, should we plant an herbaceous border or flower bed with the small plants strictly in front and the taller ones in the back, with ground, middle and sky-line in regular succession from front to back, or shall we plant just as many high objects in front as in the middle or nearly as many, and have low ground lines running back behind higher front groups? Both are recommended by authors on landscape gardening. (Samuel Parsons, Jr., the American author, versus Charles H. Y. Smith, the old English author).

Massing colors versus mixing intermediate green with it; that is, shall we attempt to make effect with, for instance, a white and a red color as contrast directly or shall we have a green foliage space fill in and amongst the other two colors? In nature in very few instances we find no green.

We should learn something more definitely as to mixing varieties or massing one or two; whether it is bad taste to plant a tropical bed along Canadian hemlocks, and if so, why so; whether it is bad taste to plant a border of ornamental evergreens under the shade of a row of horse chestnuts, if there is not a ghost of chance that they may have grown so naturally (vide gardens in Newport's most fashionable parts), and if so, why so; or shall we "thin out" so as to enable us to look through and partly see the sky and other objects behind or shall we present a solid bulk of foliage massive, showing lightness and grace of outlines only, and if so why?

I believe such questions as these which come up in our work repeatedly would, when definitely and rightly answered and explained, help us more towards an understanding of landscape gardening as an art, than trying to operate with theories of unity, delicacy and whatever else we find proclaimed as qualities necessary to a beautiful landscape. That may lead us to understand these rules of art. We want first, classical knowledge of what has been done, and secondly, solutions of questions which lie intermediate between mere horticultural knowledge and strict rules of art.

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Kill Your Scale

If you want to kill Scale on your plants Absolutely, there is only one preparation

WILSON'S PLANT OIL

Take a can of this preparation, dilute to four times its bulk with water, and wash or spray your palms, ferns, aspidistras, smilax or any plants subject to bugs or vermin and your plants will be clean. No alkali. Nothing deleterious. Dries at once.

READ WHAT OTHERS SAY OF IT:

Rutherford, N. J., June 28, 1906.
We have thoroughly tried your Plant Oil with very striking results. We may say this is the first insecticide we have tried on our palms that will remove the scale with the first application. We would like to say this is one of the few things that the florists cannot afford to be without, especially those who are growing palms and decorative plants. After one application of the Oil the plants take on an entirely new appearance. We would be pleased to have prospective buyers visit our nurseries and inspect the palms on which we have used your oil.
BOBBINK & ATKINS.

New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
Yours very truly,
GEO. A. SKENE.

Florham Farms, Madison, N. J., December 8, 1906.
Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
Yours truly,
A. HERRINGTON.

PRICES: $\frac{1}{2}$ pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

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**Azalea Pots, Orchid Pots, Bulb Pots,
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The qualities that have caused so great a demand for HEWS POTS in the New England States are responsible for a growing demand throughout the country.

The HEWS POT is an assurance of strength, lightness and porosity, qualities which give equal satisfaction to the Commercial Grower and Private Gardener. It is the most economical and satisfactory pot on the market.

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NEW YORK BRANCH
Pearson Street
Long Island City

THE FACTOR OF SNOW IN GREENHOUSE CONSTRUCTION.



A Snow Bound and Snow-free Comparison.

While spending a delightful Sunday afternoon with the editor of one of the largest country life magazines, our conversation drifted to green houses and the part they occupy in "the great awakening." "The awakening" is what he called the now universal opening of people's eyes to giving systematic attention to growing things; also the wonderful developments for surrounding themselves with the glass-grown beauties of Nature. He spoke of the large ranges of glass as far south as sunny Atlanta, and on the other hand the difficulties the snow-

completion an addition to an old style house. The addition was of the most modern construction, by a firm from "the States." When we reached there the new house had no heat in it, and the workmen were just getting the trenches in shape for the piping. That house, however, was absolutely free from snow or ice, and the sides were piled up with the snow that had continually slid from the roof. The older, heated house was on the left of the new one, and at right angles to the potting room. The gutter had held back the snow on this roof, and you



The Same Houses As They Looked in "the Good Old Summer Time."

bound Canadians have had in keeping their green house roofs free from snow and ice.

It was a fortunate coincidence that took me a few days later to Montreal. Sitting in the hotel one afternoon, with the mercury sagging down to 20 degrees below at noon, and three feet of snow on the level and more falling, it occurred to me to visit some of these Canadian green houses and get a line on the conditions spoken of by that editor. So I looked up a photographer and started out. The only green house I managed to reach that day was in a little town north of Montreal. The owner was just having brought to

can see from the photograph how the house was practically snowed under.

To better give an idea of how these houses stand, and to compare the construction of each, I have borrowed a couple of photos from the builder—one an exterior, shown herewith taken in the early summer when things had started up a bit outside; and the other an interior which at that time was filled with tomatoes, yielding an average of five quarts to a plant. To those of you, then, who have had United States snow and ice "troubles of your own," I would suggest the curved-eave house as a practical solution of the problem.

L. W.

**Clipper
Lawn
Mower
Co. DIXON,
ILL.**



The Mower

that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price; No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter.

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HOT BED SASH
PECKY CYPRESS BENCH LUMBER

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ERECTED AND EQUIPPED COMPLETE IF DESIRED

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STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 3 1/4 " " 5.25	60 8 " " 3.00
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800 3 1/4 " " 5.80	48 10 " " 4.80
500 4 " " 4.50	24 11 " " 3.60
320 5 " " 4.50	24 12 " " 4.80
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	6 16 " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N.Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

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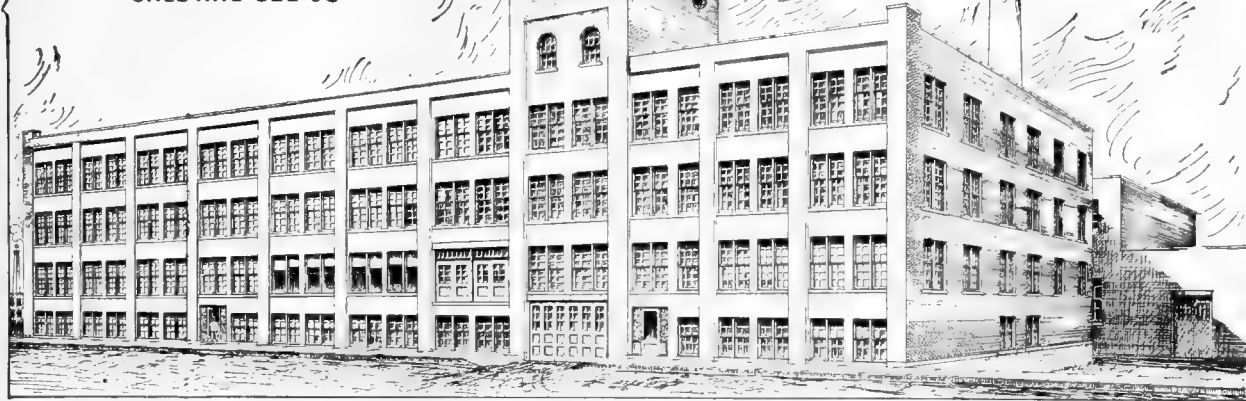
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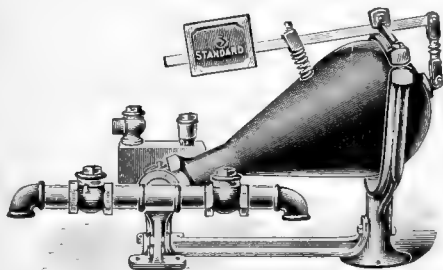
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is fully guaranteed
PLANT BED CLOTH
gives shade and still allows free circulation of air.

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Bought Your Ventilating Apparatus Yet?

Then you are in luck, for now you can get such a machine as an up-to-date florist should have—an H & Co. Oil-Itself Gear. But don't put all the stress on the oil itself point, that simply makes your work a good sight easier. But if the construction and adjustment were not what they are, the little strength you now have to put on the hand wheel, would have to be many times increased. It is more than a mere ventilating apparatus, it is a powerful, built to last machine that stands up to any strain you will put upon it.

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Iron frame and wood Greenhouses of every type for commercial and private use.

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Sash opening apparatus and all kinds of greenhouse structural material.

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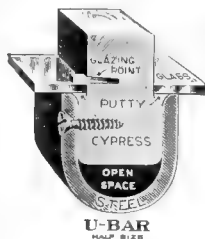
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John C. Moninger Co.

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THIS lean-to propagating house is a still further evidence of the care with which every

U-Bar detail is worked out. The bed with its

solid slate sides and tile bottoms is a thoroughly indestructible affair. The heating pipes are underneath, giving a perfect control to the bottom heat. The ventilating wheel is handy, but entirely out of the way. The roof line where it connects an adjoining house is clean cut in its every detail.



For further particulars of every U-Bar strong point, send for catalog. **Pierson U-Bar Company**, Designers and builders *U-Bar Greenhouses*, Metropolitan Building, Fourth Avenue and Twenty-third Street, New York.

The Best Thing You Ever Put in Your Greenhouse

PERFECT CIRCULATION IN ALL DEGREES OF WEATHER
ABSOLUTELY ASSURED BY THE USE OF OUR ELECTRIC CIRCULATOR

Rutherford, N. J., June 26, 1907.

Messrs. W. W. Castle Co., 170 Summer St., Boston, Mass.

Gentlemen:—Your inquiry regarding the Circulators received and in reply beg to say that the four Circulators now in operation have been more than satisfactory. We can give special commendation for the work you have rendered in connection with our old steam system, which heated at the time something like 30,000 square feet of glass.

Since changing this steam system to a hot-water system, it has not only taken care of the 30,000 square feet of glass to our entire satisfaction, but we have been able to add several more houses and sheds to the system without the least trouble.

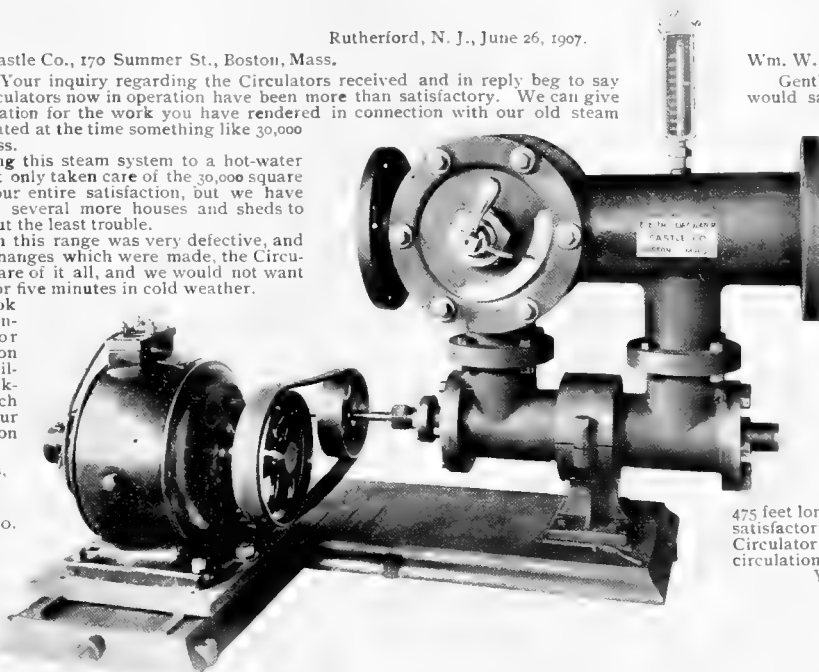
The piping in this range was very defective, and after the slight changes which were made, the Circulator now takes care of it all, and we would not want to be without it for five minutes in cold weather.

You may book our order for another Circulator which is to go on the battery under the packing shed, of which we spoke to your Mr. Congdon upon his last visit.

Very truly yours,

(Signed)

JULIUS ROEHRS Co.



Clifton, N. J., June 25, 1907.

Wm. W. Castle Co., Boston, Mass.

Gentlemen:—After a season's use, would say that I can conscientiously say that the Circulator does all that you claimed it would do.

We are using a six-inch Circulator to care for 12,000 feet of two-inch pipe, and have it attached to the main return near the boiler. Running the system under gravity, we are able to get a temperature of 105 to 110 degrees in the main return, but within ten minutes after starting the Circulator we get 130 to 135 degrees, which I consider excellent work. I have not attempted to figure out the saving in fuel by using the Circulator, but it must be quite considerable; the boiler can do its work with far less forcing, and thus a smaller boiler and less piping would do the work than would be necessary under the gravity system. With our large houses 475 feet long, we could not possibly heat them satisfactorily without either the Electric Circulator or some other system of forced circulation.

Yours very truly,

(Signed) ROBERT SIMPSON.

THE ELECTRIC CIRCULATOR

My Dear Sir:—It is a pleasure to be able to report that during the past very severe winter we have used 73 tons of coal as against 99 tons consumed during the winter of 1904-1905. The saving, as you will see, is about 25 per cent during the most severe and protracted winter we have ever experienced. We compare with an average cold season that above named, and conclude that your Boiler and Circulator is a mighty good investment for any one who wishes to improve their heating system.

Yours very sincerely

(Signed) E. O. ORPET.

P. S.—I endorse all of the above.—E. V. R. THAYER.

So. Lancaster, Mass.

Dear Sir:—The Circulator installed for me last fall has given me entire satisfaction and works well. With the quick circulation received from its use there certainly is a saving of fuel, and if a person with a system not piped so as to get a good circulation was to try the Circulator before laying out too much expense on alteration of piping, I believe he would receive the benefit required. Cordially yours,

Needham, Mass.

(Signed) PAUL E. RICHWAGEN.

Gentlemen:—Yours, asking in regard to our experience with your Circulator which you installed for us last fall, is at hand. . . . We consider it a splendid thing for it gives the rapidity of a steam circulation on a hot-water system. . . . From a mechanical standpoint, it is perfect. Any one can operate it, and it certainly seems to us an invaluable adjunct to a water system. We should be glad to have any one call and inspect it at our Scarborough place, where it can be seen in operation, any time after we begin to fire in the fall.

Scarborough, N. Y.

Very truly yours,

(Signed) F. R. PIERSON Co.

Dear Sir:—Having had plenty of zero weather with wind all through the past winter, the Circulator has had a tyrant to cope with. I am pleased to say that it has proven convenient, economical and necessary. I cannot say too much for its efficiency, and you are at liberty to refer any one to me who is interested in securing a positive circulation for hot-water heating with the least expenditure for fuel.

Biddeford, Me.

(Signed) CHAS. S. STROUT.

Dear Sir:—It is a pleasure to recommend your Circulator for the very efficient work it does for me. I have two greenhouses each 200 feet long piped for steam with 1½-inch pipes, and can operate them perfectly with hot water by using the Circulator; in a very short time it brings the returns nearly as hot as the flows. As I have two of the Circulators in use under different conditions, I am well able to judge of the work they are capable of doing, and would not like to part with either of them.

Waverley, Mass.

Yours truly,

(Signed) WILLIAM W. EDGAR.

I believe the Circulator is O. K., and I know it would have been impossible for me to keep my large new house from freezing if it wasn't for the Circulator.

Defiance, O.

C. WINTERICH.

Dear Sir:—The Boiler and Circulator installed by you last Fall has given entire satisfaction. I have saved at least twelve tons of coal, and have given Mr. Congdon an order this day for one of the largest Boilers you make, to be put in at the Stone property on Nelson St., Leominster. It is the best Boiler I ever had.

Leominster, Mass.

Yours respectfully,

(Signed) J. J. FULLER.

The above are a few testimonials regarding the Circulator.

No boiler ever built for greenhouse heating can compare in good results with our
STEEL PLATE HOT-WATER BOILER

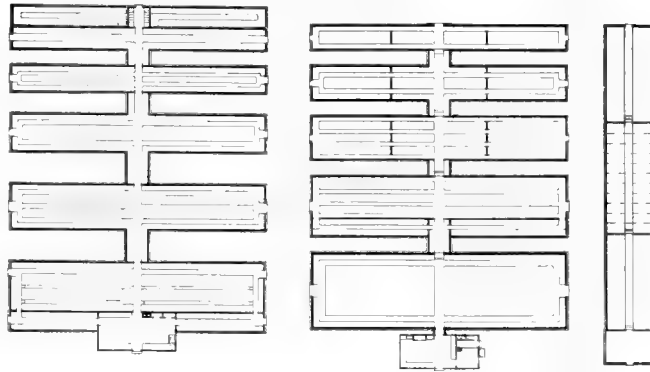
The Boiler and the Circulator in operation will be on exhibition at the
S. A. F. Convention at Philadelphia. Don't fail to see them.

W. W. CASTLE Heating Engineer **170 Summer St., Boston**



Sixty thousand feet of glass is a pretty good-sized layout for a commercial proposition; but when we come to think of such a range being devoted to cut-flowers on a private estate, then the broad field that the greenhouse and its products has reached begins to dawn on one.

Here is a splendid example of the possibilities and perfection of the L. & B. Sectional Iron House. The plan is an economical one, both from points of light, heating and working. The central connecting passage ways make each house readily accessible and carry the trench from the mains, giving an equal distribution of the coils on either side. The space between the houses is ample to prevent one house from shading the other. The placing of the houses in three groups



further adds to their handiness, while giving a pleasing architectural distinction to the whole scheme. The palm house is 40 feet wide by 133 feet 4 inches long, and so framed that no columns are necessary. The grapery, peach and nectarine houses are in the extreme left group. For perfection in growing condi-

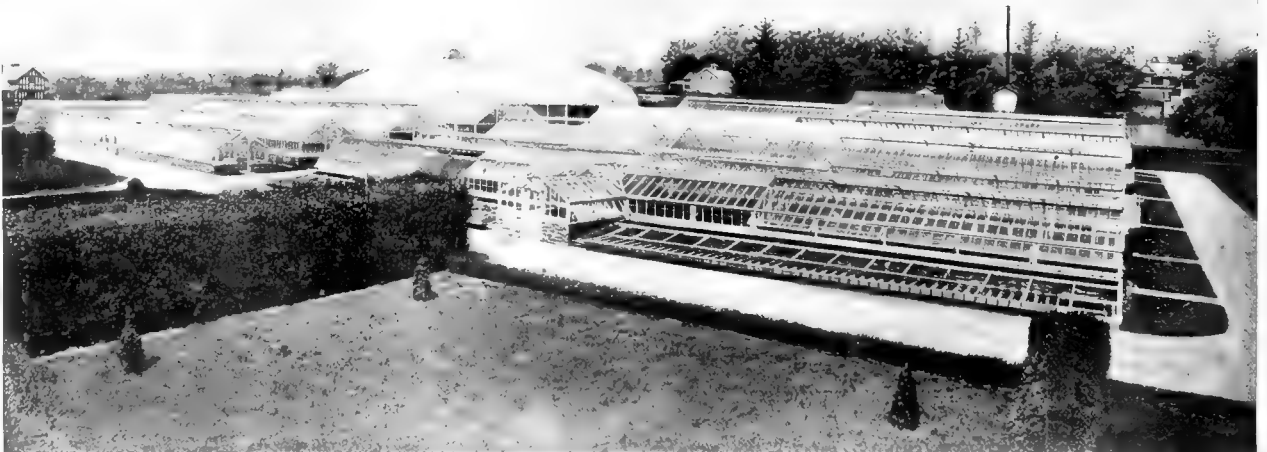
tions, this range has proven a record-breaker. Superintendent Kleinheinz, with his skill and the advantage of these houses has to be reckoned with when it comes to a prize

competition of importance.

Advance leaves of our greenhouse catalog now ready. Send for them.

Lord & Burnham Co., Greenhouse Designers and Manufacturers, 1133 Broadway, Corner 26th Street, New York. Boston Branch, 819 Tremont Building. Philadelphia Branch, 1211 Filbert Street.

WE MAKE EVERY PART FOR A GREENHOUSE BUT THE GLASS
WE SELL ANY PART



HORTICULTURE

Vol VI.

AUGUST 24, 1907

No. 8



PRESIDENT-ELECT F. H. TRAENDLY

Society of American Florists and Ornamental Horticulturists.

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FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
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— A WONDERFUL NEW NEPHROLEPIS — **NEPHROLEPIS SUPERBISSIMA**

WE exhibited at the Convention at Philadelphia some fine specimen plants of this new fern, which is a very unique and distinct novelty—as distinct from *Nephrolepis Piersoni* and *Piersoni elegantissima* as they were from *Bostoniensis*.

IT IS A COMPLETE BREAK. The fronds are very heavily imbricated, the pinnae overlapping, making the fronds very dense and compact. It differs from the other *Nephrolepes* not only in form, but in color also, being a richer and darker green—entirely different from the yellowish green of all the *Nephrolepes*.

The plant is very sturdy in its habit, the fronds never breaking down. While a photograph shows a similarity to its predecessors, it is **ABSOLUTELY DISTINCT**, not only in the formation of the fronds, but in its habit and general characteristics. It makes a much more dwarf and compact growth, the fronds being very dense, firm, and rigid, and having a great deal more substance, so **THAT IT WILL STAND MORE KNOCKING AROUND** than any other fern of this type.

This is a sterling novelty. Experts who have seen it consider it far and away the best fern ever sent out. It is a plant that needs to be seen to have its great value and sterling qualities appreciated. It really is not in the same class with the other varieties.

It will be disseminated by us in 1908. **ORDERS WILL BE BOOKED AT ONCE** and filled in rotation as booked.

F. R. PIERSON CO.
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A GRAND FERN NOVELTY

Of all the sports of Nephrolepis, there are none to compare with

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the latest and best of them all. We are booking orders now for Sept. delivery.

Write for prices.

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Asparagus Plumosus and Tenuissimus 5 in. pots, \$3.00 per doz.

FERNS Boston, 5 in. pots, \$3.00 per doz.; Scottii & Anna Foster, 4 in. pots, \$2.00 per doz. 3 in. pots, \$6.00 per 100

GROTONS fine plants, 4 in. pots, \$2.00 per doz.

FERNS assorted varieties, 3 in. pots, \$4.00 per 100.

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Ready for Delivery after July 15th.

Each flat contains 110 clumps of small plants, which can be divided in 3 to 5 plants accordingly, all ready for potting.

We can furnish these ferns, grown separately, each flat containing any one of the following sorts, ferns all good salable varieties.

Aspidium tsussimense Pteris Gilbertii
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Mixed varieties.

Price, \$2.00 per flat.

STUMPP & WALTER CO.
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WHITMANII FERNS

Fine Strong Plants, Free from Scale, Bench Grown, Established in Pots.

2 1/4 in. \$5.00 per 100 3 1/4 in. \$15.00 per 100
3 1/4 " 10.00 " 4 1/4 " 25.00 "

Cash with Order.

This Stock will please you.

ROCKLAND GREENHOUSES,
Rockland, Mass.

W. B. Arnold, Prop.

BOSTON FERNS

from bench, strong, healthy plants, ready for 6 in. pots, \$40.00 per 100; 8 in. \$60.00; 10 in. \$75.00 per 100.

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24 N. Main Street, Dayton, O.

10,000 FERNS

	Per 100	Per 100	Per 100
BOSTONS	6 in. \$35	5 in. \$25	4 in. \$10
PEIRSONII	" 35	" 25	" 10
SCOTTII	" 35	" 25	" 10
WHITMANII	2 1/4 in. Pots \$5 per 100.		

2,000 RUBBERS

6 in. \$35 per 100 5 in. \$25 per 100 4 in. \$20 per 100

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2 1/4 in., \$5.00 per 100

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2 1-2 inch pots, \$2.00 per hundred
300 Salter, 300 Appleton, 500 Gen. Hutton, 75 Mrs. Coombes, 75 Bonnafon, 50 Intensity, 100 Golden Hair, 50 Goldmine, 500 Enguehard, 200 Polly Rose, 50 Convention Hall, Superba From 4 in. pots \$5 per 100; 100 Wm. Duckham, 50 Mrs. Jerome Jones. Cash with order. J. J. ARNOLD, HOMER, N. Y.

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250,000 fine shaped plants grown exclusively for us by Eugene Verveat De Vos, Swynearde near Ghent, Belgium, in his own gardens. Special prices upon request.

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2 1-4 inch \$5 per 100 \$45 per 1000
250 at 1000 rate.

3 and 4 inch, 7c. and 12c. each

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FORCING LILACS

German pot-grown, true to name, white and blue, single and double, fall delivery. No better grade imported than ours. The assorted case of fifty plants, thirty-four dollars, duty paid, f.o.b. N. Y. Send your order to

AUGUST ROLKER & SONS

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Splendens Giganteum Hybrids

In five colors; the finest strain known. 3-in. pots, ready, \$7.00 per 100; 4-in., \$15.00 per 100; 5-in., \$20.00 per 100. Satisfaction guaranteed.

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Importer and Wholesale Grower and Shipper

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Brides \$4.00 per hundred. Bridesmaid \$3.00 per hundred, \$27.50 per thousand.

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PRESIDENT—F. H. Traendly, New York City.

VICE-PRESIDENT—George W. McClure, Buffalo, N. Y.

SECRETARY—P. J. Hauswirth, Chicago, Ill.

TREASURER—H. B. Beatty, Pittsburg, Pa.

The Broad Street Theatre presented a scene of brilliancy and animation such as the National Society has rarely seen, when at 2:45 p. m. on Tuesday, August 20, 1907, Vice-President John Westcott stepped forward on the stage and called the assembly to order. The stage was beautifully decorated with banks of plants and flowers. In the long row of present and past officials of the society seated on the platform there were included probably a larger representation of ex-presidents than ever graced a similar occasion, the list including ex-Presidents Craig, Hill, Smith, Lonsdale, Graham, Gude, O'Mara, Breitmeyer, Burton, Vaughan and Kasting, together with the members of the Executive Board and officers of the Florists' Club of Philadelphia.

Vice-President Westcott was very happy in his opening remarks, which elicited much applause and put the audience in excellent good humor for the exercises following.

He asserted that, while he himself might be known as "a sport," he appreciated the wisdom of subordinating recreation to business. He said that, although the society might be regarded as a trade organization for selfish purposes, it was in reality doing a great work for the best interests of mankind in improving home surroundings and making the world happier. He had begun his career as a gardener by rooting; he had continued to root; his advice to every one was to root, for rooting was as necessary in every-day life as in sports. He called upon President S. S. Pennock of the local club to read a letter from Governor Stuart expressing regret at inability to be present and open the meeting. He then presented His Honor, Mayor Reyburn of Philadelphia, who proceeded to extend a hearty welcome to the visitors on behalf of the city.

He said in part:

"What Mr. Westcott has said re-

minds me that I am a sport. I believe a sport is a man who gets much out of nature in all her forms. I love the sea and the blue skies and the flowers, and I believe that that is the best kind of a sport to be. I want to say that I heartily favor the work of your society. You bring out the beauties of nature and furnish them to the people. You are not inspired by selfish motives, but you work in the interests of humanity. Philadelphia is sometimes called a plain city, but we have many noble things here, and I know that the

pressive oratory kept his audience literally spell-bound as he told of the great hospitable heart of the City of Brotherly Love which had, on so many impressive occasions, been opened to welcome the stranger. He recalled how Philadelphia had welcomed and cared for the beardless boy advancing to war and returning wounded or victorious in 1860-65. He said Boston was the Hub but the Hub had to agree that Philadelphia was the Axle. He continued, but I realize how difficult it is for a lay member to attempt to voice the sentiment of an organization such as this. The Society of American Florists is not confined to a few localities; it extends all over this nation. It has representatives here from the coasts of New England, from the Savannas, from the land of the mocking bird, from the mountains and valleys of the Middle West, from where the Great Divide cuts across the continent, from across the Slope and clear down to the golden sands of the Occident. It has its aim and object, and no one can say they are not the very best. We have met here at the urgent request of your florists, and I can simply say, Mr. Mayor, in response to your courteous and eloquent words of welcome, we thank you.



COL. W. W. CASTLE

Who responded to the address of welcome.

citizens are seconding me in extending to you a cordial welcome."

After the applause had quieted down Mr. Westcott introduced W. W. Castle of Boston, who stepped forward and with words of cordial appreciation presented the Mayor with a magnificent cluster of roses and lily of the valley on behalf of the National Society and then proceeded to voice the sentiments of the Society in response to the words of kindly, hospitable welcome which had just been listened to. With eloquent expression and well-turned phrase this past-master of im-

President Wm. J. Stewart was then presented by the vice-president and was accorded a most enthusiastic reception, with long-continued applause. The president then proceeded to read his annual address which was closely listened to by an audience which fairly filled the theatre. It was as follows:

PRESIDENT'S ADDRESS.

Fellow Members and Guests:—The occasion which we inaugurate so auspiciously today is a notable event in the life of the organization whose passing years these annual conventions mark. Contemplating the horticultural advancement in this country since the founding of the Society

of American Florists we can feel justly proud that in all the high achievements which adorn and signalize this period as one of unprecedented progress in the science and practice of horticulture this society has had an honorable participation. From the start its roll-book has borne the signatures of the leading spirits in the craft to whose uplifting it has been pledged, and in whatever community it has presented itself it has invariably been accorded a welcome and high place in the public esteem.

Standing here in this fair city where horticulture has ever been honored and beloved, where from the day of its birth this society has been steadfastly championed—a community, the home of not a few illustrious exponents of our art in the days gone by, a community which can boast horticulturists, florists, plant growers, seed establishments and nurseries second to none in the world today, a people wide-awake and enterprising, yet warm-hearted and companionable—here, in this City of Brotherly Love, as we voice our gratitude to the pioneers and extend our hand to the coming generation, we may well stop and take a survey of our field, note conditions as we find them, lay plans and invoke continued success for our society and all that it represents.

The Mission of the Horticulturist.

To clothe the earth with loveliness, to cooperate with Nature in her most beautiful functions, to instill into the affections of the people an appreciation of our art and a zeal for his products and to serve them and gratify this desire is the mission of the horticulturist. The materials in which he deals were once classed among the luxuries of life, but the world is fast coming to recognize them as necessities of healthful and rational living and, as this sentiment grows, so also will grow the importance and influence of the horticulturist in the public eye.

The Mission of the Society.

To aid the horticulturist through the influence and power of concentration, by the gathering together, moulding and assimilating of the concrete wisdom of the many, and to bring the profession to a lively sense of their duties and privileges and a better realization of what is possible through the medium of a well-supported central organization is the task of this society. Its aim and its purpose have ever been to stimulate emulation, to broaden the channels of business, to promote the fraternal spirit, to help the gardener and florist in making for himself an honored position in the commonwealth and to inspire the profession with a more correct understanding and better appreciation of the nobility of their calling which, as Downing tells us, "is intrinsically the parent and superior of them all," because agriculture is the basis of all wealth and horticulture is the refined essence of agriculture.

The Field and its Cultivation.

Agreeably to custom it becomes my duty to ask your attention at this time to such suggestions and advice as seem to me sound and wise and conducive to the growth and continued efficiency of this society. First let us take a look at the situation. We find

a vast country possessing the widest range of climate, topography and soil, affording homes for ever-multiplying millions of people ambitious, enterprising and prosperous and now reaching that stage where the finer sentiments begin to develop and the desire for beautiful home environment commences to kindle.

To the extent that the gardener and florist grasp the situation and act upon the opportunity thus presented depends much of the future welfare of our horticultural industries and of gardening art. One thing is indisputable; if the horticulturist is to do his part in directing and developing the garden-hunger of the people he must first make good use of every means to fit himself to do this intelligently. These are times of unprecedented rush and enterprise. Timorousness and parsimony have little part in the policies that lead to success now-a-days, and he who would excel must follow modern methods, taking full advantage of the horticultural literature of the day and of personal in-



HARRY BUNYARD
Sergeant-at-Arms.

timacy with his fellows in the societies and clubs; he must travel, visit exhibitions,—in short, he must use every avenue of publicity and every opportunity to sharpen his wits and enlarge his knowledge. The day when a paying business can be done with untidy grounds, neglected store windows, decrepit greenhouses, badly grown plants, misrepresented trees and shrubs, and haphazard financial methods has gone forever.

Garden-hunger and the Horticulturists' Opportunity.

Modern suburban transportation facilities have given a tremendous impetus to the rural home idea. It is to the man skilled in horticulture that the home-maker will turn for advice, assistance and material needed and for those who grasp the opportunity in the right spirit there will be found abundant scope and full recompense for cultural knowledge and artistic talent. Nothing comparable to the present demand for hardy garden material has ever been experienced in

this country, and no horticultural enterprise intelligently and diligently conducted can fail of success if existing conditions are understood and provided for. Tender material, also, will get its full share of the prosperity if used with better discretion as to its adaptations and limitations. For the ambitious, earnest young man, blessed with an artistic temperament, no department of horticulture offers brighter emolument or higher honor than that of outdoor gardening in all its branches. Within the scope of our vision today the field seems practically unlimited and the young generation may safely go into training for large responsibilities—every one will be needed. Under pressure of exigencies prevailing in the past the gardener has in too many instances been acquiring a one-sided experience and some of our most talented indoor growers find themselves badly handicapped through deficient education in the fundamental operations of general gardening. The horticulturist who makes his mark in the future will not have these limitations, but will combine a thorough equipment for outdoor planting, grading, management and executive ability, with a fine knowledge of indoor operations and proficiency in the production of flowers and fruits under glass that will stand the test of comparison with the products of the specialist. Several of the agricultural colleges are doing good work on this order and turning out trained young men from whom we may expect much.

Room for Improvement.

Too many greenhouses are devoted to crops for which neither the houses nor their owners are competent. We see acres of nursery space filled with antiquated stock; well-grown flowers sacrificed through careless handling or through inefficiency in the sales department; the once-prosperous flower-shipping business prostrated by short-sighted methods; the trade subjected to criticism because of the trumpeting of undeserving novelties. Our exhibitions are crude in method, faulty in manner of making awards or interesting the public. In every branch of activity there is room for better system. The arrangement of flowers, the planting of garden beds or the larger operations of beautifying an estate or creating a landscape picture, in many of which as we see them from day to day the qualities of originality and artistic intelligence in form and color harmony are conspicuously lacking show conclusively the need for study and self-education in artistic taste before we are properly fitted to instruct the public. It is the province of the florists' club to seek out and apply the remedy for all these deficiencies and it becomes the duty of the craftsman in justice to himself and his fellows to uphold in every possible way his local organization and do his share towards the general advancement which is sure to follow the fraternizing of congenial spirits whose material interests are identical.

Support the Societies.

No better evidence of progressiveness in a given locality or in any special branch of our industries can be adduced than a full representation

on the society roll books and at the regular meetings, yet how pitifully small in the aggregate is the proportion of the horticultural craft represented in the membership of all our local or national bodies. The power of organization when all stand behind it, for whatever is just and right, the tremendous advantage in being able to command unity of sentiment and action when any evil menaces, is a lesson that is being learned with exasperating slowness.

Forest Protection.

While on the subject of societies it may not be amiss to call attention to the efforts that are being made for the protection of what is left of our forests—a heritage of greater intrinsic value to the health and prosperity of our country than all the gold mines on the continent. Devastation by soil erosion, floods and droughts, bird extermination, insect plagues, and many other evils are following in the wake of the wanton forest destruction which has been going on. Few interests are more seriously affected by

the conservatories and conservatory plants, or the small fruits and products of the kitchen garden which every home lover likes to indulge in, once the appetite of the people for such things has been thoroughly aroused. Large as the demand already is, numerous and prosperous as we know the craft to be, yet who can say that our country is not well able to furnish business sufficient for many times the present number of our commercial establishments and employment for good gardeners in far greater numbers than they can be supplied today? With these facts in view I know of nothing which promises so rich a return as the school garden movement. In addition to its services in the cause of good citizenship it must be obvious to all that activity on this line is also good business policy and assures the interest of the coming generation in parks and gardens, tree-lined highways, horticultural exhibitions and plants and flowers everywhere.

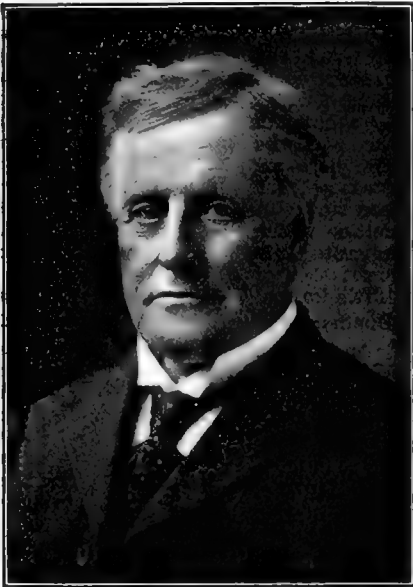
Educating by Example.

Again, every florist's home should

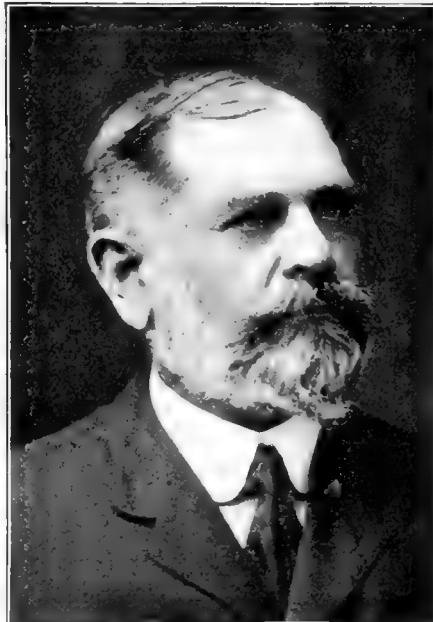
field in a few of its many phases the question comes as to what part this society should assume conformably to its avowed aims and through what channels best results can be reached. It is the business of an organization such as this to help men to help themselves and then to conserve and safeguard the results of their work so that those who come after them shall have as their heritage the sum total of the efforts of their predecessors.

Our Relations with Other Organizations.

It has been my conviction for a long time that there is nothing more to be desired to place this organization in a position of greatest usefulness than some system of direct affiliation with existing or prospective special and local organizations. Far from regarding these societies as a possible menace I look upon their multiplication as distinctly to our advantage. The field is practically limitless and we can well afford to nourish any and all well-meant efforts to build up horticulture in any of its branches. There is an



ROBERT CRAIG



EDWIN LONSDALE



JOHN BURTON

Three Philadelphia Ex-Presidents of the S. A. F.

all this than is horticulture and every movement, local, state or national, for forest preservation, should have our zealous support individually and collectively.

Educating the Public; the School Garden Movement.

Chief among the instrumentalities for the upbuilding of our industries is the education of the public to a fuller appreciation of our products. The majority of American homes fall short of the home ideal in their lack of any setting of living green. Consider the possibilities—the millions of house plants, the hundreds of thousands of porch and window boxes for both summer and winter, the innumerable little table ferneries, the tons of lawn and flower seeds, the cargoes of spring and summer bulbs, the garden implements, the vast quantities of evergreens and shrubbery and border and bedding plants for which a demand can be created, not to mention

be a shining object lesson. Show neighbors and passers-by the possibilities with spring bulbs, with easily-grown plants in bed and border, in piazza box and window; excite their dormant perceptions with rose and clematis and honeysuckle-bowered porch and pillar; impress them with the dignifying effect of ornamental trees and shrubbery, the cheery picture of evergreens in winter time. See that they are wisely instructed in the selection, planting and care of material and that they realize that the time is probably not far distant when bare yards and flowerless windows will pass as an evidence of ignorance and squalor within. The public are in the mood to welcome such activity on the part of the florist, the newspapers are at all times disposed to assist, and the more the florist does in this direction the higher position he will occupy in the esteem of his townsmen.

How the Society Can Help.

Having thus hastily scanned our

infinity of specialized detail and local work which the smaller and more compact bodies can care for with an efficiency far beyond the reach of a society constituted as this is. Let them do it if they will and wherever and whenever the time comes that they find their burden heavy and the road rough let us put our big shoulder to the wheel and help them. On the other hand there are movements where a successful consummation is only possible under the capacious mantle of a large national organization. Events of the past year have indicated to us how at any moment we may be called upon to champion the cause of some branch of the trade where strength of numbers and national incorporation become elements of great strength and where the existence of a powerful representative body serves as a restraint and defence against corporate plunder. I believe we should keep working on this problem of closer relations until some feasible plan of permanent affiliation and intelligent

cooperation has been evolved and a system of specialized work established through these auxiliary bodies.

Plant Registration.

A well-regulated system of plant nomenclature is needed. It would be an element of great stability if all registration of varietal names could be recorded in one universally recognized bureau. Whether this should be done direct by the owner or first pass the scrutiny of a specialized society, where such exists, is of little consequence provided it finally comes into the custody of a central authority having the power to follow up infringement and extend the fullest protection within the law to the originator or owner. This central authority, I believe, should be the Society of American Florists and Ornamental Horticulturists.

Two Important Duties of the Society.

The time seems now ripe for us to insist that horticulture be made a regular course in our public school system. There can be no question of the wisdom of this society's taking an advanced position on this matter and fostering liberally all movements for the dissemination of garden knowledge through this means. Every argument on physical, mental and moral grounds is on our side.

As a society we should lend aid and encouragement to any investigation or experimentation for the purpose of stimulating the production of any horticultural material for which we have hitherto been obliged to depend upon foreign sources of supply. "Made in America" is an inscription too seldom seen on horticultural goods. How can this organization best assist to that end? In the case of those goods which we must import, there is room for a better system and improved facilities in the appraisers' department, and I hope our legislative committee will give this question the attention it should have.

Parcels Post Needed.

The project of a parcels post is a reform worthy of our hearty support. A cheaper and more reliable means of distribution for packages of limited size and weight, such as is enjoyed in most European countries, would greatly benefit the plant and bulb trade and provide the means for supplying the public at small cost with plants of a size that might be seen without the aid of a microscope and might be nurtured into lusty specimens without the use of an incubator. Were it not for the express companies a parcels post would have been a reality long ago—so we are told. The express companies and the S. A. F. have been making one another's acquaintance of late and find they don't think alike on some things.

State Vice-Presidents; Out-door Exhibitions.

I am satisfied that the present system of selecting State vice-presidents to represent this society sectionally might be improved upon and would suggest that you consider the adoption of some system whereby, in those localities where any organization exists, we might through mutual arrangement confer upon the presiding officer the

honor of representing the S. A. F. in his territory during his term of office.

It is much to be regretted that the Executive Board found conditions so unpropitious for an outdoor exhibition of planted material in connection with this convention that the project had to be abandoned. It was hoped by many that the humble beginning made in Dayton might be followed up and that in time an outdoor exhibit might be made a regular feature of our conventions, but in a large city the difficulties seem almost insurmountable. Wherever circumstances permit I believe it will be good policy to provide at least for a planting of such novelties as cannot be properly presented in an indoor exhibition.

National Flower Show.

As the National Flower Show project will be reported on at the proper time by the very competent committee of fifty under the chairmanship of my predecessor I will not take your time now with any reference to it other than to submit that it would be a grave mistake to make any change from the time-honored date for holding our annual convention. If it is thought wise to have a meeting at Chicago at the time of the exhibition let it be a special meeting called as provided for in the by-laws. The proposition to merely meet formally in August so as to comply with the constitutional requirements and then adjourn over until the time set for the flower show would, I firmly believe, very seriously affect the prosperity of the society.

The Society's Good Record.

The birth of the Society of American Florists was the outcome of a conviction on the part of its promoters that the horticultural interests of America were ready to get together for mutual advantage and the uplifting of their art. The young society found the commercial florist, as a rule, isolated and provincial because of the lack of opportunity for any but the most limited intercourse and interchange of opinion and experience. Not one society, club or periodical devoted primarily to the interests of floriculture existed on this continent. The best test of the wisdom of the founding of any institution is what it has been able to accomplish. Do you not think that the seed sown 23 years ago has borne pretty good fruit? The yield might have been increased many fold had every one in the profession who needed just this help taken advantage of it; still it is not too much to say that the S. A. F. has been the underlying force which has in this brief period placed American floriculture on an eminence where it commands the respect of the world and that the splendid confidence of its founders in the future magnitude of their profession has been well justified. The spirit of progress which prompted them to break the shackles of past isolation and secretiveness and throw wide open the doors for a general intellectual and material advancement is still our best asset. We must allow free scope to the mighty reserve forces of American horticulture and be constantly on the alert to see and act upon every opening for strengthening our hold upon the heart-strings of the profession.

The Winning Combination.

Unselfish, hard-working loyalty to the organization and its principles, on the part of every member, is the winning combination in all club and society affairs and this I would especially plead for at this time, as we near the close of my official labors. My dearest ambition during these many years has been to contribute with all my heart toward making this society the great leader in every work tending to the ennobling and enriching of our profession. I know, by intimate contact with those associated with me in the society's service, how faithfully they have done their duty and how unselfishly the members generally have responded when called upon for any assistance. These are the qualities that make for success in any organization and I earnestly hope they will be continued and strengthened in the years to come.

What Conventions Are Good for.

The society is to be congratulated on the magnificent attendance at this meeting. Conventions are always an incentive and encouragement. They give zest to work, feed the intellect, enrich our literature. They are a unifying force, establishing and cementing friendships and bringing into advantageous contact those who, although widely separated, are actuated by a common purpose in life. I pity the man who sees nothing to interest him here and finds no inspiration in such gatherings, no strength to help him surmount the daily recurring difficulties which are our common lot, no advantage in the opportunity to inspect this great industrial exhibition. Little he realizes how great is his loss.

Business First, Pleasure Afterwards.

And now let us proceed to business. We have diversions innumerable, entertainment after entertainment awaiting our pleasure; the bowlers and their henchmen are eager to pounce upon that tempting aggregation of honor and silverware, but with all their vociferation they are among the best promoters in the society's service; the ladies, indispensable always, have organized a little side auxiliary of their own; a magnificent exhibition across the way justly claims much of our attention. But with all these allurements let us not forget that the eye of the world is upon us and that important business awaits our attention first.

Upon the conclusion of the applause which followed the reading of the address, President Stewart assumed the chair and the regular order of business was taken up, the first being the annual report of Secretary P. J. Hauswirth, which was as follows:

SECRETARY'S REPORT.

Mr. President and Members of the Society of American Florists and Ornamental Horticulturists:

As your Secretary I submit this, my first annual report for your consideration.

Transfer of Office.—By instructions of the Executive Committee I proceeded to Boston the first week in January to have the property of the Society transferred to me by my predecessor. It was to be expected that a vast amount of material had accumulated in the number of years that the position of Secretary was held by our

President, William J. Stewart, and the Committee instructed me to destroy all documents that were of no value to the Society.

Transportation.—Considerable difficulty was encountered this year to procure reduced rates from the various Passenger Associations on account of the enactment of a two-cent rate in a number of States. This was especially true in the territory governed by the Western and Central Passenger Associations, and they refused to grant us the usual concession. The rate of a fare and a third was granted by the following Associations:

Trunk Line Association, New England Passenger Association, South Eastern Passenger Association, Eastern Canadian Association,

The Central Passenger Association granted us Card Orders that empowered their agents to sell through round trip tickets to Philadelphia at the rate of two cents a mile each way in the territory controlled by them and the rate of one and one-third fare in the territory controlled by the Associations that granted us the latter rate. This concession enabled a member to procure a round trip ticket that would only have to be validated at the ticket office when he was ready to return—within the time limit of his ticket.

The Western Passenger Association would not grant any concession but referred us to the one way tourist rates in effect in their territory to St. Louis and Chicago, and advised our members to buy to those points and then use Card Orders. In addition to the above, the cheap rates from all points to the Jamestown Exposition, and the Merchants' rate to New York, with very liberal stopover, were in effect.

Badge Book.—The Executive Committee at Philadelphia instructed me to continue the Badge Book, providing same could be supplied to the members at an expense not to exceed seventy-five dollars. I could not procure same at that price and therefore did not issue the book.

Membership.—The membership statistics as they appear on the books to January 1, 1907, are as follows: Total number of life members, 124; total number of annual members, 696; total \$10. Accredited to the following States:

	Life.	Annual
Alabama		8
California		5
Colorado		8
Connecticut		14
Delaware		1
District of Columbia	7	16
Florida		4
Georgia	1	10
Illinois		81
Indiana	2	27
Iowa		10
Kansas	1	4
Kentucky	3	8
Louisiana		9
Maine		1
Maryland	2	22
Massachusetts	19	43
Michigan	9	30
Minnesota	3	9
Mississippi		1
Missouri	8	29
Nebraska		2
New Hampshire		4
New Jersey	8	20
New York	122	102
North Carolina	2	5
Ohio	8	1
Oregon		1
Pennsylvania		96
Rhode Island	17	8
South Carolina		1
South Dakota		1
Tennessee		1

Texas	1	1
Virginia		5
West Virginia		4
Washington	1	
Wisconsin	1	16
Canada		7
Holland	1	
	124	696

The question of how to retain our membership after getting their names enrolled is one that needs attention. In looking over the records of past years I find that a great number have allowed themselves to be dropped from membership that ought to be numbered on our list. The various Vice-Presidents can accomplish considerable in retaining these names and I am pleased to note that a number of them have made efforts in that direction.

Members Lost by Death.—Since the last report we have lost five members by death, three being life and two annual members: Lewis Ullrich, Tiffin, O., October 29, 1906; J. L. Dillon, Bloomsburg, Pa., October 20, 1906; Jas. Braik, Buffalo, N. Y., January 16, 1907; J. F. Kretschmar, Flatbush, N. Y., June 8, 1907; Samuel Henshaw, W. New Brighton, N. Y., July 23, 1907.

Since last report the following new plant names have been registered:

September 29, 1906—Cannas, Sunburst, Topeka, by Central Park Nursery, Topeka, Kan.

October 27, 1906—Rose, Rosa Rugosa magnifica, by Dingee & Conard Co., West Grove, Pa.

October 27, 1906—Cannas, Meteor, New York, by Dingee & Conard Co., West Grove, Pa.

October 27, 1906—Laelio-Cattleya, Washington A. Roebing, 2nd, by C. G. Roebing, Trenton, N. J.

November 24, 1906—Carnation, Toreador, by H. Weber & Sons Co., Oakland, Md.

November 24, 1906—Chrysanthemum, Weber's Chadwick, by H. Weber & Sons Co., Oakland, Md.

September 22, 1906—Canna Magnificent, by Central Park Nursery Co., Topeka, Kas.

February 6, 1907—Chrysanthemum, Golden Dome, by John A. Macrae, Providence, R. I.

February 28, 1907—Sweet Peas, Le Marquis, Mrs. George Lewis, Mrs. A. Zvolanek, Mrs. Charles H. Totty, by A. C. Zvolanek, Bound Brook, N. J.

March 18, 1907—Rose White Killarney, by Waban Rose Conservatories, Natick, Mass.

August 10, 1907—Rambler Rose, Newport Fairy, by Julius Roehrs Co., Rutherford, N. J.

August 17, 1907—Rose, President Roosevelt, by Dingee & Conard Co., West Grove, Pa.

In closing, I desire to state that having assumed the office of secretary after January 1st, several of the subjects covered were during the term of my predecessor.

TREASURER'S REPORT.

The annual report of Treasurer H. B. Beatty was next read by that gentleman. The life membership fund showed an increase during the year of \$556.24, making the total on deposit \$4,287.76. The general fund showed receipts for the year amounting to \$3,300.79 and disbursements, including an account for printing proceedings of 1905 which had been held over from

the previous year, of \$3,503.76, making the balance on hand January 1, 1907, \$3,279.99, which with the life membership fund makes the total cash in treasury amount to \$7,567.75.

Following the acceptance of the treasurer's report came the report of the legislative committee by Benjamin Hammond, chairman, detailing the correspondence with various congressmen and others on the question of the tariff on glass which had been assigned for this committee's attention at the Dayton Convention last year. The presentation of this report was the signal for a lively and interesting debate on the engrossing topics of protective duties, trusts and politics which lasted for nearly an hour, and on vote the Legislative Committee was continued for another year with the addition of Messrs. E. G. Hill and Patrick O'Mara to its membership. A large number of the state vice-presidents' reports were received and were referred to a committee composed of R. Vincent, Jr., Geo. A. Kuhl and John G. Esler for perusal and report later on. The president appointed Chas. H. Vick, of Rochester, N. Y.; F. E. Palmer of Brookline, Mass., and Adolphus Gude, of Washington, D. C., to serve as judges of the Exhibition.

THE PRESIDENT'S RECEPTION.

This pleasant social affair was highly successful. From 8 to 9 P. M., in the lobby of the Broad Street Theatre the president shook hands with a thousand members and their ladies. With President Stewart, in the receiving line, were Vice-President and Mrs. Westcott, J. D. Carmody, Secretary and Mrs. Hauswirth, Mrs. W. K. Harris, Mr. and Mrs. Robert Craig, Treasurer and Mrs. Beatty, Mr. and Mrs. W. F. Kasting. The receiving stand was a perfect bower of palms and flowers. After passing through the guests filed into the theatre which was finally filled to overflowing and for an hour and a half enjoyed an excellent vaudeville entertainment, followed by refreshments. Over the stage was a brilliant electric display in colors, bearing the words Welcome—1907—S. A. F. and O. H. The arrangements were under the management of the special reception committee of the Florists' Club of Philadelphia, headed by Robert Craig, and it was one of the most enjoyable affairs in the whole history of the Society.

WEDNESDAY'S SESSION.

Wednesday morning's session opened half an hour late, but business went at a rapid pace after it got started. The first thing was the reading of Mr. Frey's paper on bedding plants, where and how to use them, by Wilfred Wheeler, its author being unable to attend.

Bedding Plants, Where and How to Use Them.

Riding through parks, along boulevards and country roads, speeding in trains through villages and towns, all over the country, passing the magnificent palaces of the wealthy with their beautiful lawns and the humble cottages of the poor surrounded by modest yards, everywhere the eyes meet the brightness of flowers and richly colored plants, which at once impresses upon

us the popularity and universal love for bedding plants.

There is such a large variety of these plants from the smallest annual up, like portulaca, to the stately subtropical plants, and also the perennials must not be forgotten, for they figure greatly in various effective displays. Then we have tulips, hyacinths, daffodils, etc. for early spring flowering. No garden need be without flowers from the time the dainty little crocuses peep out of the snow until late in the fall. No matter how small the purse, enough seed can be purchased to obtain a very harmonious and artistic effect, as well as a continuous season of flowers. It is not the means of being able to procure a large amount of choice plants, but it is the good taste and skill of the designer, who understands how to make an arrangement to harmoniously and discriminately combine the various colors with immediate surroundings, no matter how inexpensive, that appeals to the lover of nature with all its art and beauty, and this is what we are striving for more and more every day.

The average florist who deals in bedding plants, should by all means, give this particular subject thorough study, in order to be able to assist and educate his customers, who in most cases appreciate such advice and instruction in regard to arranging and planting their gardens so as to present a beautiful picture. It requires just as much artistic judgment and ability to accomplish this, as the painting of a picture on canvas. The designer must show individuality and know exactly what proportion the plants will attain, how soon they will be fully developed, also how the colors will blend together, in fact, he must see the finished picture before him when he designs his plans. The sooner we commence to understand how to arrange these beautiful gifts of nature better, the sooner we make a large majority of the people of our grand nation happier. We have everything to do it with, now let us understand how to do it.

To cover the subject best I have divided it into two chapters, as the title of this article indicates; "where to use them and how to use them."

The proper selection of the place for the floral display is first to be considered. A place where it will be properly effective is just as important as the execution of the planting, as this takes a definite part in the entire scheme. Locality, building and size of grounds must be taken into consideration, the smaller the place, the simpler should be the display; it is so easy to overcrowd a small front lawn whereby the proper effect is entirely lost. Large places in proportion will have more elaborate plantings, and the artist will have occasion to plan special features, such as courtyards, parterres, sunken gardens, Italian gardens, etc.

The front of a building is most always selected for the display, which is generally formal, and, if the space is limited, a narrow border of plants adjoining the building will be sufficient, with perhaps one or two beds on the lawn, proportional to the latter. There should always be plenty of green grass to offset the beds. The

backyard as a rule is very much neglected and in many instances unsightly; here I would advocate to have a grass plot with a border plantation. How much more cheerful one would feel, looking into a well kept yard than at a lot of rubbish. Places of larger dimensions with their beautiful landscape effects must be treated more in detail. Here we have an opportunity to lay out in connection with residences, conservatories and public buildings, courtyards, parterres, rose gardens, etc., which as a general rule are part of the architectural scheme and in harmony with the style of the building. In the last few years Italian gardens have again become quite popular, and these especially set apart from the rest of the landscape, must be treated by themselves. They are very set and usually contain considerable color well blended together.

Besides these forms of special treatment already mentioned we also have other gardens, which give an opportunity for a larger variety of flowering plants, in the line of annuals, roses, perennials, etc., which properly arranged make a brilliant effect without interfering with the more subdued and restful landscape. Public parks especially are a great field for floral displays and, although some authorities on landscape gardening do not favor them, I believe the public fully appreciate flowers; though the utmost care must be taken not to let them run wild all over the park, but keep them in the vicinity of buildings or entirely away and screened off from the quiet landscape. Boulevards also and small squares can be most admirably brightened with the ornamentation of flower beds.

Last year at the convention in Dayton, Ohio, all our members had the rare opportunity of seeing how the surroundings of a factory can be laid out in a most praiseworthy manner. Here our bedding plants brighten daily the minds of thousands of people.

How many people are not fortunate enough to possess a home with a lawn and flower beds. There is no necessity to deprive themselves of nature's gifts, but they can enjoy them in a more modest way, by keeping flower boxes, which, no matter how obscure and unassuming the dwelling, give it a homelike air and enliven the aspect of many an otherwise somber home. On the other hand, many beautiful residences rely solely upon piazza boxes for their floral display, and exquisite results can be obtained in this manner.

Finally a few words should be devoted to the homes of our loved dead. There is nothing more soothing to the grief-stricken heart than the sight of well kept cemeteries, bedded with appropriate flowers, speaking the language of peace and rest.

There are many and varied ways that the bedding plants lend themselves to; there still remains another problem to solve, namely, "How to use them." Here skill in artistic arrangement and harmony of colors is put to a severe test.

Starting with the beginning of the season, the various Dutch bulbs are the first ones to attract our attention. They are easily cultivated, and therefore most appropriate for the amateur.

Exquisite effects and color schemes can be carried out, although their duration of bloom barely reaches more than four weeks. I think they make the most striking display of the season. Only the purest and clearest colors should be selected. Off colors and the peculiar magenta shades are hard to match with pure colors and are best planted by themselves or far enough distant so as not to detract from them. Mixed beds containing a number of varieties look very well, but beds of all one color show by far better taste. Where a number of beds are planned greater attention must be given to work out a harmonious color scheme. Pink, white and light blue blend admirably together; next comes yellow, then red and yellow and the various reds. It is a great deal more pleasing to the eye to let the colors run into each other by degrees than to create too big a contrast. Colonies of crocuses, snowdrops and scillas, singly and several together, irregularly scattered on the lawn, look very charming.

Pansies, bellis and myosotis are also extensively used. As the pansies come in a multitude of colors, they are mostly used mixed and often with *Bellis perennis* as a border. Little advantage has been taken of working out color schemes with pansies, and yet, if we stop to study their rich tints, tints which I think cannot be found in any other plant, the possibilities are wonderful.

Following these come the summer plantings, with cannas, geraniums, heliotropes, begonias, petunias, coleus, acahyphas, abutilons, salvias, verbenas and a great number of other plants too numerous to be mentioned.

Most all bedding plants thrive and flourish best in full sunlight, except tuberous begonias and fuchsias, which do best in half shade, where there is plenty of indirect light; other plants like some of our hardy palms, phoenixes, latanias, chamærops, the various fibrous rooted begonias, like *Semperflorens*, *Vernon*, *Schmitti* and fancy leaved caladiuns do well under both conditions.

The soil for cannas, musas, ricinus and caladium esculentum, should be very rich, their growth will be so much more luxuriant, while the rest of the plants like geraniums, begonias, verbenas, salvias, cupheas, ageratums, etc., also need enriched soil; care must be taken not to use too much fertilizer, this will result disastrously; the plants will show an abundance of foliage in place of flowers.

Bedding plants before set out in their summer quarters should be properly hardened off; they should be exposed freely to the air and sunlight at least two weeks before the planting season commences. Nothing serves this purpose better than the hot-bed, no matter how much some of the growers are opposed to this sort of cultivation. It is true the cost of labor is somewhat higher, but the superior results obtained fully justify the expenditure made, and plants hardened off in this manner suffer but very little in transplanting. We have plants of every desirable height, from two inches up to eight feet, some with a wealth of flowers, others again with richly colored foliage, some with coarser, others with more graceful features.

In the arrangement of plantings, one great object, which is one of the great principles in landscape gardening, is in many cases lost sight of, namely, the consideration of the skyline. Especially in large border plantations this should be applied. Here we have tall plantings broken with lower ones, until they finally run out to very low plants at the edge. In fact, in every bed, as well as in larger displays, the relation of one bed to the other should be treated this way. While the beds are all more or less formal, they should not appear stiff. Every plant should have plenty of room for full development, and where a number of varieties are used in one bed, the tall ones should not be massed all together, but here and there one should rise above the lower ones, so as to present a loose and pleasing arrangement, and in this manner every plant will show its valuable points more advantageously. For example, a bed planted only with *Ficus elastica* would look very stiff, but intermingled with the graceful *Grevillea robusta* and a border of ivy, it would lose this stiffness and present a very pleasing effect. This shows that by careful study, we can improve the bad points of one plant with the good ones of another.

Particular stress should be given to the selection of the various tints, blending richly colored foliage tastefully with the more gorgeous tinted flowers, so as not to create too big a contrast. Beds of solid colors, alternating with some of less contrast will harmoniously tie the entire display together and this will help greatly to achieve the desired plan. It is in the designer's power to present a very brilliant or also a very quiet picture according to the scheme that is required. Quiet and restful effects are worked out by using tints of various blues, whites and gray, variegated glaucous and bronze foliage with a little touch of red and *Anthericum vitatum* var. *Punica*, *Granatum*, *pumila*, *Abella rupestris*, *heliotrope*, *Plumbago*, *capensis*, *coerulea* and *alba*, *Phygelius capensis*, *Santolina* and *Abutilon Savitzi* lend themselves well for this purpose.

Much more could be said on the subject, but in my opinion, one runs no risk of failure by adhering to the points laid out in my modest essay.

The paper was received with an appreciative vote of thanks. Mr. S. C. Moon then read his paper on hardy shrubs, how to plant and treat them. This was declared to be a paper of unusual practical value and brought out a number of questions which Mr. Moon replied to briefly. We hope to publish this paper in full at a later date.

The report of the exhibition judges was then presented and was accepted with thanks. Awards on novelties were made as follows: Conard & Jones Company, honorable mention for canna William Saunders and New York; W. A. Manda, certificate of merit for *Dracaena Mandaiana*; honorable mention to F. R. Pierson Company for *Nephrolepis superbissima*; Charles Ehle, honorable mention for unnamed *Nephrolepis*; John Lewis Childs, certificate of merit for white seedling *gladiolus*; M. Rice & Co., highly com-

mended for ornamental tree log; D. B. Long, highly commended for fine art folders; certificate of merit to Hart's Handy Handle, a device for supporting flower pots; honorable mention to Wilson's steel concrete greenhouse bench; Dayton Paper Novelty Company, highly commended for embossed flower boxes.

Next Year at Niagara Falls.

The next business—selection of a meeting place for 1907—brought out the usual oratory. Ex-Mayor W. W. Cutler of Niagara Falls, N.Y., presented the claims of that city. Detroit as represented by Philip Breitmeyer, gracefully withdrew and Niagara Falls got a unanimous vote. For president F. H. Traendly of New York and J. R. Freeman of Washington were nominated the first by W. F. Kasting and the latter by J. C. Vaughan. For vice-president W. W. Cutler and Geo. W. McClure were put in nomination. Secretary Hauswirth and treasurer Beatty were given each a unanimous nomination.

Mr. Farquhar presented the report of the committee on name of the society and recommended that a petition be presented to Congress asking that the name be changed to The Society of American Horticulture. This was the signal for much oratory which was finally cut short by a motion to postpone decision until Thursday morning.

The Trip to Riverton.

When the steamer Columbia started out from her pier at the foot of Arch street at 2 p. m., she carried one of the largest and most representative gatherings of florists ever assembled in America. Arriving at Riverton the visitors were escorted to the Dreer nurseries and an inspection of the extensive hardy perennial collections and numerous greenhouses was at once begun. Unfortunately a succession of heavy showers interfered with much out-door pleasure but all was merry in the great sheds attached to the range of fern houses where a substantial lunch was dispensed amid surroundings gorgeously adorned with brilliant bloom. After all had been satisfied President Stewart called the assemblage to order and briefly voiced the appreciative gratitude of the visitors to their hosts. A wild outburst of cheering greeted Mr. W. F. Dreer as he mounted a chair and told of the pleasure it had given him to welcome the fraternity to his vast establishment. Cheer upon cheer followed Mr. Dreer's kind remarks.

THURSDAY'S SESSION.

The initial topic of interest at the opening of the Thursday morning session was the election of officers. Mr. Cutler withdrew his name as a candidate for vice-president. Balloting went on for one hour during which time the question of the change of name of the society brought out some lively discussion on the phases of the society's aims and legitimate field of operation between the warhorses of the organization. After being amended the proposition was finally defeated by a large majority. Mr. Hallock then proceeded to read his paper on hardy bulbs and tuberous rooted perennials, which was deferred from Wednesday.

An interesting discussion followed after which superintendent Rust presented his report on the trade exhibition which was accepted. Mr. Hallock then presented his paper on "Horticulture in the Public Schools."

Horticulture in the Public Schools.

By referring to last year's report of this Committee it may be seen that the School Garden movement is already an active factor. Most wonderful results have been accomplished by individual effort. Whole communities have been benefited under the direction of individuals and also of associations. Good examples of these two methods are what Mr. John H. Patterson has done in Dayton, Ohio, and the Home Gardening Association in Cleveland, etc.

The School Garden has passed its experimental stage. Its success and good results are assured. But, as stated in the committee's report of last year, there is "lack of concerted action" in the present methods of work, "no two schools or organizations conducting their garden-work on the same lines."

It is proved beyond doubt, by the success of these different movements, that the teaching of horticulture in the schools is of more importance than any one realized; and the successful outcome that has been attained, all by different methods, shows that elementary teaching of horticulture according to one method could be spread indefinitely throughout the country. Variations and broadening could be indulged in, but all should follow the lines laid down. It seems as though there had been enough proof offered and its vital importance acknowledged by every one.

There is a tendency, we find, to confine the school gardens to our cities and large towns, where they have been established by civic associations and philanthropic workers, or to make them a part of some normal school system. The desire of this Committee is to reach the rural common schools, and to give the children of every rural district in the land some simple lessons in practical gardening adapted to their surroundings and their needs. The time has now arrived for doing, and many plans have suggested themselves to your Committee. To get a hearing before educational societies, or the local and state boards of education, is a difficult matter. A committee going before a state organization would be picked to pieces, criticisms made, difficulties piled up, a plea that the course is full, and a hundred other objections. We therefore believe and recommend that this subject of teaching horticulture in all the rural schools (and other schools wherever possible) be made an act of legislation, mandatory on the State Board of Education to embody it in the public school course; and that the Society of American Florists formulate a working plan to this effect, and prepare the matter for the 1st, 2d and 3d years, due consideration and consultation to be had with the State Board of Education, and limitation of time to be devoted to this subject fixed on—of not less than one hour per week in school, and not less than two hours out of school, except during the three winter months.

The Committee presents a tentative plan, and it is the sense of this Committee that the only practical way is to start with one State at a time, and we propose to have this bill passed by the Legislature of the State of New York. If there is any other State that the Society thinks would be preferable, the Committee has no objection.

As the Massachusetts Horticultural Society makes the broad statement (quoted in our report of last year) that its aim is to give every school in Massachusetts a garden and every child a home-garden, it might be more feasible to have this bill adopted by the Legislature of that State.

Following Mr. Hallock's paper W. B. Du Rie presented interesting remarks on the same topic as representing the special committee on the school garden movement appointed in connection with the discussion of the president's address. This was followed by an earnest discussion which continued until the appearance of the tellers prepared to announce the result of the vote for officers. The fortunate candidates were F. H. Traendly, New York, president; George W. McClure, Buffalo, vice-president; P. J. Hauswirth, secretary; H. B. Beatty, treasurer. The only contest was on the presidency and upon the declaring of the vote Mr. Freeman took the floor and moved a unanimous election for his opponent on the ticket, which was carried amid great enthusiasm. The several candidates were presented on the platform and each made neat speeches of acceptance. J. D. Carmody then claimed the platform, which was accorded, and in a characteristic, kindly speech he presented to President Stewart on behalf of the Society members a solid silver set of knives, forks and spoons of great beauty. Mr. Stewart tried to respond, but found only halting words to express his feelings, as he referred to the enforced absence of his partner because of severe illness, and tried to voice his thanks for this gift which would be jointly enjoyed.

HORTICULTURAL EDUCATION

By Horticultural Societies and Clubs, Including a Review of the Work of the Boston Landscape Class.

Paper by J. K. M. L. Farquhar read at S. A. F. Convention, Philadelphia.

It is undoubtedly true that all American horticultural societies and clubs have endeavored to promote interest in, and knowledge of horticulture. It is also true that the efforts of these organizations have resulted in great advancement along the lines they have worked. If, for the sake of illustration, we regard the field of horticulture as a complete circle, we find well defined lines running from its centre to the circumference in many directions, but, unfortunately we also find too many of the 360 degrees of its circumference to which as yet there appear no lines, vast fields of horticultural science which have hardly been trodden upon in this country. Considering the phenomenal successes we have developed along the lines which we have explored, it seems all the more regrettable that our efforts have not been more distributed.

The keen watchfulness, zealous ap-

plication and enterprise of the American florist have given him, in a single generation, first rank in the world in the production of roses, carnations, chrysanthemums, violets, sweet peas, asparagus and other plants in which he has specialized, and his intimate knowledge of the requirements of his subjects, gained by close personal observation to which his accomplishments are chiefly due, has rarely been equalled by his fellow-craftsmen abroad. This aptitude and past success make it quite obvious that he can achieve similar progress in new lines.

The florists have not hesitated to impart freely through talks and essays at horticultural meetings, the knowledge they have gained of their specialties. The nurserymen too have occasionally given valuable information on trees and shrubs and how to use them. Likewise the fruit and vegetable growers have most freely imparted the knowledge they have acquired. Again, the members of every horticultural society in the land have listened to predictions of despoilation by blight and insect until in dread of calamity their faces have become white and their lips blue like the trees and crops whitened with arsenate of lead or blued with copper sulphate.

But you will ask me,—“What about the untrodden fields?”

In the flower line there are many things yet untried which may and will be used both in commercial and private establishments. We have seen larkspurs, lupins, scabious, corn-flowers, schizanthus, leptosyne, etc., grown for winter-cutting as successfully as roses and carnations.

We force a few perennial plants like dielytra and spiraea, but how seldom do we hear of the campanulas, foxgloves, sweet-williams, trolius, Daphne cneorum, the Christmas rose and many other suitable biennials and perennials being forced, notwithstanding an existing and growing demand for greater variety and novelty in winter flowers.

I have alluded to talks on fruits and vegetables and their culture. Who has ever suggested the prolific and delicious Lichee of southern China or the delicate naseberry of the West Indies as subjects for culture under glass like the peach and nectarine, or, which of our vegetable experts has taken pains to advance our knowledge of salad plants or of herbs for seasoning, in both of which subjects we know much less than did the Romans when they occupied the northern shores of the Mediterranean two thousand years ago.

This is the day of progress and horticulture must and will advance in many heretofore neglected lines.

Generally speaking, it can best be advanced through the instrumentality of the all-round trained gardener. How many of our foremost florists have risen from the ranks of the private gardeners? Mr. Peter Fisher of Carnation fame, Mr. M. H. Walsh and Mr. Alexander Montgomery, whose names are garlanded with roses, are notable examples and there are others too numerous to be referred to individually now. I am satisfied that this is the day to stir the gardener to new activities, his opportunities for advancing both himself and his profession were never so good; besides too, he must look to his position—a

certain kind of landscape architect seeks to outstrip him and wrest from him the laurels and emoluments of his art. That which the gardener from his long practice and intimate acquaintance of his material, knows almost intuitively, this kind of landscape architect gathers a superficial, talking knowledge of from his books, and immediately begins to practice theoretically. His clients and the gardeners are usually the sufferers. Never has there been such an effort on the part of these impractical, book-made, self-styled experts to subordinate the practical gardener as at the present time.

We have many progressive trained gardeners, who are much more competent to lay out and plant a place than the mere graduate of a college landscape school. The gardener may not be able to make as attractive a plan, nor to talk so fluently of harmony of color, contrast of form, of light and shadow as the college man, but he knows how the grade should be, how to prepare the soil, how to plant the trees and shrubs and he has genius to plant a picture of such beauty, of such harmony, of such strength so exactly the complement of its setting, that beside it the labored composition of a college striping is a helpless misfit. Do not imagine, however, that I underestimate the value and advantage of the horticultural school course provided it is a practical one and supplemented by actual garden work, but I would rather trust with the arranging of a garden a man who has been taught to use the spade properly and who has a natural love of nature, than the horticultural school graduate who has learned to pot plants with gloves on.

It was with the view of bringing the best young gardeners to the front, to encourage them and qualify them for the opportunities open to them, that about a year ago, the Boston Landscape Class was organized. The class numbered about sixty members mostly working gardeners—many of them head men filling positions of responsibility, others assistants. It met twice a week, with an average attendance of about forty.

The subjects taken up the first year, included geometry, topographical drawing, projection, prospective, grades, harmony of color, landscape composition and the use of the level. The instruction was supplemented by field days for out-door demonstration and practice.

It is intended to extend the course over three years in which time the members should become thoroughly acquainted with the practice and theory of general landscape gardening.

The better class of landscape gardeners or architects will find the members of the Boston Landscape Class in no way opposed to them, but by their study better able to understand each other and co-operate to the mutual advantage of both when their work brings them together. At the same time, the gardener who has thus become familiar with both the practice and theory of landscape work will never give place to the book-made adventurer of the average superficial and impractical, two or sometimes three year landscape college course of the present time.

THE EXHIBITION

LOWER HALL.

The offices of the secretary, the registration bureau of the local society and the superintendent's office occupied the north wing. At the extreme west of the rotunda the space was occupied as a reception room by M. Rice & Co. Daniel B. Long of Buffalo has his usual display of artistic photographs, tags and other printing and publishing for florists. His motto of "Natural Beauty adapted to business" is well carried out in the new design of the American Beauty spray. Roseville Pottery Co., Zanesville, O., occupied the center aisle north with a fine display of artistic ware in elegant and novel designs. The ancient Egyptian style is well brought out in this exhibit as is also the fruit skin finish jardinières and pedestals.

The electric circulator from W. W. Castle, Boston, was a center of interest from start to finish. Mr. Congdon, who had charge of this exhibit, had an eager crowd around him all the time. The "Castle special" boiler was also shown and its fine points explained. When we build our model place by and by we will certainly have a "Castle special" in it. The Herendeen Mfg. Co., of Geneva, N. Y., showed their Furman 8-section boiler also the only aluminum boiler ever cast. This latter was a great attraction. A. Rasmussen, New Albany, Ind., had a model greenhouse on show to demonstrate his new method of working the ventilators. As near as we could make out the principle of this invention is to so balance the sash as to require far less effort to open or close. Oscar Smith & Sons Co., of Philadelphia, had a small exhibit of raffia and sphagnum and the Keller Pottery Co., of Norristown, has a nice display of common flower pots. The W. H. Moon Co., sent evergreen in tubs, American arbor vitae, Mugho pine Scotch fir, etc. Dayton Paper Novelty Co., made an interesting display of florists' boxes and similar items. The Quaker City Machine Co., had a model greenhouse showing their new sash-lifting lever, a device which lifts as much with 11 lbs. pressure as the old style did with 20 lbs. The Bombayreed Co., Columbia, S. C., had a nice display of reed jardinières and basket work. This showed great artistic skill in the workmanship and much progressive thought in the materials and designs. C. J. Rainear & Co., made a good showing of wrought iron pipe, valves and fittings. Lord & Burnham's display was quite extensive and one of the most interesting in the exhibition. They set up their largest sectional steam boiler complete; also their hub boiler specially designed for low cellars. The benefits of the special petrol grates for burning refuse coal were eloquently enlarged on by Mr. Craw, ably backed up by the Philadelphia manager, Dennis T. Connor, and a small army of lesser lights. Hummel & Downing came all the way from Milwaukee with a fine display of folding boxes. The King Construction Co., had a model of their special style of truss work on show. This attracted much attention, it being the same

method as is used in the large structures, such as were recently put up in this vicinity for the Florex Co., etc. Ellwanger & Barry contented themselves with a demonstration of American-grown dormant rose plants. The Whilldin Pottery Co. had a very large and interesting display of staple goods, from thumbs up to the largest, also seed pans, hyacinth pots, etc. Hammond's Slug Shot Works had an attractive stand in which their new Mt. Beacon green shading was given a prominent place next to the old English glazing putty. A. H. Hews & Co. of Cambridge, Mass., made an excellent showing of their well-finished and artistic pottery, a feature being their display of orchid pots. The Kroeschell boiler and the Moninger greenhouse occupied two-thirds of the center aisle. William P. Craig made a display of Italian pottery and gave his attention also to the Robert Craig Co. stand close by, where samples of the new fern Amerpohlii and fancy crotons were conspicuous. The new broad-leaved ficus was also a feature. William C. Smith made a fine showing of well-grown Boston ferns and rubbers, holding good to his motto: "Some give you quantity, some give you quality, I give you both."

UPPER HALL.

At each side of the grand staircase leading to the upper hall stood a 15 foot specimen of *Caryota Rumphii*, shown by C. B. Newbold, gardener Samuel Batchelor. Facing the central landing was the display of the H. F. Michell Co., an exhibit of seeds, bulbs and florists' and seedsmen's sundries, excelled by nothing ever shown before the S. A. F., and illumined by an electric sign. On each side hung the announcement of the Leo Niessen Co. Taking the various exhibits we find in the florists' supply line H. Bayersdorfer & Co. with an unrivalled display of florists' goods. Everything in rich ware, baskets and fancy floral goods was included in this attractive show. Near by was Schloss Bros. with lovely new ribbons, violet cords and dainty chiffons. J. Stern & Co. had artificial flowers of remarkable perfection in new material and preserved flowers, smilax, asparagus, ferns, holly, etc., in marvellous state of preservation. Wertheimer Bros. showed ribbon novelties in rich array. Reed & Keller made one of the largest and most comprehensive displays of florists' requisites ever staged here, including vases and vase stands of great beauty, artificial flowers, wire work, fancy pots and novelties in great profusion. Robert Kift's useful flower holders were artistically shown by Mr. Kift and the Philadelphia Flag Co. showed letters, emblems, etc. A fine exhibit of florists' supplies, artificial and dried flowers, etc., was made by J. G. Neidinger. The Pennock-Meehan Co. staged a vast display of ribbons and cords in rich variety, under a brilliant electric sign, which was a centre of attraction. Pretty pearl pins were shown by M. Adler. The Edwards Folding Box Co. and W. J. Boas each had fine exhibits of florists' boxes.

In cut flowers the exhibits were more extensive than usual. Conard & Jones Co. made a remarkable showing of new American pedigree cannas. Vaughan's Seed Store had fine gladioli including Princess and Mrs. Frances King. Arthur Cowee, as usual, brought a myriad of Groff's hybrid gladioli, which with the attractive attendants, made a striking display. From John Lewis Childs there came also a dazzling array of fine gladioli. James Vick's Sons made a beautiful display of their improved asters, superb blooms.

As might be expected the crack plant growers were out in force. F. R. Pierson's *Nephrolepis superbissima* made a sensation with its rich dark green massive foliage and their compact growing form of elegantissima closely following *Scottii* in habit, but lace-like in its foliage. The Pierson Company also showed bulbs in fine quality. E. Amerpohl made an exhibit of the beautiful *Amerpohlii* fern and Charles Eble showed a finely divided form of *Anna Foster*—a great improvement on that variety. The H. A. Dreer display was very extensive and comprised an infinite variety of ferns, palms and decorative material. Julius Roehrs Company also made superb displays of decorative plants, including many novelties, palms and orchids. Orchids were also shown blooming in unusual variety for this time of the year by Lager & Hurrell and C. D. Ball. Lemuel Ball and others were represented by fine groups of palms. There were orchids also from Carrillo & Baldwin, who showed some handsome things. W. K. Harris' group was especially interesting and attractive because of his new variegated form of *Bougainvillea glabra*.

Bobbink & Atkins presented a superb group of fine conifers in tubs. Such a display of shapely evergreens of all sizes is rarely seen. W. A. Manda staged a collection of new and rare plants, of which *Dracaena Mandaiana*, a robust sport from Neo-Caledonia, attracted much attention. "Boddington's Bulbs Bloom" was the inscription displayed in large letters over the Boddington bulb table. The goods look it, all right.

Wilson & Hoyt's new concrete steel bench was a center of interest. The Corts' stakes and fasteners and the goods of the Quaker City Rubber Co. were also in this hall.

When the St. Louis Special pulled out of the station on Sunday noon for the S. A. F. Convention it had 22 on board, including Henry Browning, J. J. Beneke, John Steidle, F. H. Meinhardt, F. H. Weber with their wives, W. C. Young, F. C. Weber, John Koenig, C. A. Keuhn, Fred Ammann, Adolph Fehr, W. H. Kruse and Emil Schray.

Architects desiring to compete for plans of the horticultural hall and greenhouses to be erected by the Connecticut Agricultural College, are notified that drawings must be signed and sent to the Comptroller, State of Connecticut, Hartford, not later than August 31, 1907, at 12 m.

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Our New York contemporary fails to see
"Own your any merit in our suggestion that the flor-
home." ists' clubs and other local horticultural

bodies should try to secure and own per-
manent meeting places and finds nothing in the history
of the Massachusetts Horticultural Society to encour-
age such a course. The arguments advanced by our
contemporary are noticeable particularly for their pessi-
mistic flavor and after reading them one cannot but
congratulate the Massachusetts Horticultural Society
on the fact that in the days of its modest beginnings it
was not hampered in its enterprise and foresight by
such influences. The Massachusetts Horticultural
Society has been a power for good in many ways not the
least of which is the excellent example it has set for
other organizations to follow in their financial policy.
The suggestion that such a course is not practicable for
a florists' club because of the presumed limited resources
of the members thereof is too infantile to deserve serious
notice. No business man needs to be told how to pro-
ceed to secure ground and have a building erected
thereon on easy terms of payment. If the New York
Florists' Club, for instance, had done something of this
kind, with a reasonable foresight as to land values, say
ten years ago, there can be but one conclusion as to
what the outcome would have been.

The Single Purpose

in the reading columns of this journal is to give
intelligent readers the kind of matter which will be of
interest and benefit to them. This has been our policy
from the start and explains why a new paper has so
quickly won a reputation for good advertising results.
Every concern has its own way of doing business.

Our Way

is to aim constantly to catch the eye and the considera-
tion of the best men in the trade—those who are buyers
of first-class material and who can pay for what they
buy. If you have goods to offer to that class of buyers
then advertise the fact in HORTICULTURE and

You'll Get There

NATIONAL HORTICULTURAL SOCIETY OF FRANCE.

There are probably many of the readers of *Horticulture* to whom the name of the above society is familiar. As one of the great European horticultural societies a few notes on its position and work may be useful because there are many American visitors to Paris who would do well to include a visit to one of its shows if they happened to be there during the time one was being held.

The society which has been known under other names is now called *La Societe Nationale d'Horticulture de France* and was founded under the third Empire or, to be exact, on the 11th of August, 1855. It holds, every year, two great exhibitions, one in the spring and the other in the fall. These, since the Paris Universal Exposition of 1900, have been held in the two large greenhouses on the *Cours la Reine*, near the *Champs Elysees*, which formed the *Palace of Horticulture* during that immense international gathering. The society has also a hall of its own in the *rue de Grenelle* where smaller shows are held fortnightly and are largely patronized by the Parisian public. This building comprises various committee rooms and the large hall is decorated with some very fine wall paintings executed by some of the French artists most famous for their skill in the delineation of flowers, fruit and allied subjects.

From a recent statistical report we observe that there are nearly 4,000 members of different grades, inclusive of societies in affiliation. The annual subscription of an ordinary member is equal to \$4, and for this sum there are many privileges; entrance to the shows, use of the library and a copy of the monthly *Journal*. The *Journal* is of great interest to anyone interested in the art of gardening and it is issued in twelve monthly parts, forming a volume of considerable size. Its contents, of course, are as varied and as instructive as our own *R. H. S. Journal*.

The library is of unusual extent and rich in every department of botanical and horticultural literature. It contains about 15,000 volumes, in all languages and its monetary value would be difficult of computation for many rare French, Italian, Dutch and other old garden books are in the collection and in this respect is a long way ahead of the *R. H. S. of England*. A splendidly arranged catalogue is printed and supplied to members by the erudite Librarian, *Monsieur Geo. Gibault*, who knows more about ancient literature of this class than probably any man in Europe.

The work of the society is largely carried on by committees of which there are twelve in active co-operation. Briefly enumerated they are as follows: Scientific Committee, Pomological Committee, Vegetable Committee, Floral Committee, Committee of Arboriculture, Committee of Garden Art, Horticultural Industries, and one for Manures, also a *Chrysanthemum* and a *Rose* Committee and finally one for the examination of new fruits.

Besides awarding medals to the various exhibitors at the shows, and scholarships, the society rewards old gardeners for long and faithful service to their employers, as an instance of

which at the last of such meetings a gardener who had been in the same place for 55 years was awarded a gold medal and several others who had been 41 years, 31 years, 30 years and lesser periods in different families received similar recognition.

C. HARMAN PAYNE.

London, Eng.

WHOLESOME CHESTNUTS.

Now is the time to sow pansy seed for the production of flowers for cutting as well as for the production of good plants for next spring sales. Although we may be told that cheap seed sometimes produces plants of better quality than those produced from expensive seed it will be found the safer policy to pay a good price for the seed and to obtain from a source as near reliable as its reputation may indicate. There are several methods practised in sowing pansy seed. Some sow in flats and then place the flats in frames; others again sow the seed right in the soil in frames. The latter method is probably the better one especially if a very large number is to be grown. After the seed is sown it will be well to shade the grass temporarily, leaving it only until the seed germinates and the seedlings appear over the surface of the soil. The young seedlings should be transplanted before they begin to crowd one another. A bench of pansies for winter cutting will be found of great advantage. There are a hundred and one uses to which pansy flowers may be put by the retail florist.

Sometimes in the hurry to get returns early, young rose plants are allowed to develop blooms at a time when the vitality required therefor would have been better employed in putting healthy and robust constitution into the plants enabling them the better to give satisfactory and more lasting account of themselves later on. When disbudding is in process it will be far better to err on the side of safety than to lay too early a foundation for a crop. The soil in rose benches should be kept stirred and loose on the surface always. They will in that condition take more water with greater benefit resulting. This condition will also prevent the soil ever becoming sour on the surface. Roses or anything else will not thrive when there is a crust of sour soil on the surface covering the roots. Now is the time to be on the lookout for black spots on American Beauty plants; every leaf that shows the least sign of spot should be instantly removed.

A dry atmosphere is absolutely essential for the preservation of ripe grapes till needed for late use. In dry weather plenty of air should be given during the day and a little at night, but when the weather is wet or damp with little or no shine a little fire heat along with a free circulation of air will aid things considerably. When the surface of everything in the houses is made warmer than the outside air, evaporation will carry away the moisture. Graperies in which the fruit is now swelling should be kept moist. The leaves of a healthy vine carry off a great deal of moisture by evaporation and they cannot be kept in a healthy condition if this loss is not replaced; the red spider will in very little time make this plainly visible.

When the crop of peaches and nectarines has been gathered the trees should be kept regularly syringed and the border watered if it has been found to have become too dry. Air should be admitted freely in order to thoroughly ripen the wood.

The walks, lawns, borders, beds and shrubberies should continue to have unremitting attention. More genuine enjoyment is obtained from private places during the months of August and September than in any other month or months of the year by a great many people; it is therefore incumbent on the gardener to make every possible effort to keep the place in such condition that will afford the greatest pleasure to those at whose expense it is kept up. Hedges should be clipped neatly when the state of growth requires it, evergreens that are getting beyond the space allotted to them should be pruned, and preferably with a knife in order that the shorn appearance of shearing may be prevented. Herbaceous plants in borders should be kept neatly tied to inconspicuous stakes and decayed stems of such plants should be removed in order that the border may always have a fresh and neat appearance. All annuals should be cleared away except such as may be desired to produce seed. If unsightly vacancies result from an extensive clearance of these things there should be some material at hand to fill up again with.

Great attention must now be paid to the sowing of certain crops for autumn, winter and spring. In extremely dry weather it is desirable to sow seeds immediately after the soil is dug or forked over. Seeds will vegetate without moisture yet it is not well to drench them with water and then allow them to be parched up by the rays of the sun.

Violets should now be in such a condition as will enable them to make a good growth. From this time forward it will be ruinous to the plants to be checked in the slightest degree. The soil should be kept sweet and mellow by frequent stirring. The plants will now require that water be given them in plenty and applied judiciously. Just before watering when the soil appears in such a condition to require water a stirring of the soil will be of immense benefit to the plants. Ventilation is very important in the growing of violets. It does not do to simply leave the sashes off and let them have all the air going at all times and in all kinds of weather. In dry clear weather the sashes may be removed but when the rain begins to descend it will be well to replace them in such a manner that will prevent the rain getting at the plants.

PERSONAL.

J. Edgar Stuart, of Stuart & Haugh, Anderson, Ind., was married July 28, to Miss Louise Cloverdale of the same town.

Visitors in Boston: W. N. Rudd, P. J. Foley, Mr. Orcutt, Ed. Winterson and wife of Chicago; Samuel Parsons, consulting landscape architect for New York City.

H. Frank Darrow sailed for New York on August 15th, per S.S. *Deutschland*, from Hamburg, after visiting the various foreign firms for which he is the American agent.

SMALL FRUIT AND FIELD CROP
OUTLOOK IN NEW YORK.

The raspberry crop, usually an important one in the western and southern part of the state, will be finally gathered this week and growers are being offered 30 cents per pound for the dried fruit, but most of them are holding for a higher figure. The dry weather shortened an otherwise light harvest and few growers can boast of more than one-third of a crop.

Grapes continue most promising. Those who have sprayed most generously report an almost total absence of destructive agents. The crop, while not heavy, will be a good average one of excellent quality, and good prices are anticipated. In fact, grapes are the only fruit in this section which amounts to much this year.

Investigation and inquiry reveal the fact that the apple condition is most peculiar. While it is well known that the crop generally is close to a failure there are orchards and varieties which promise fair yields, and in this year of fruit scarcity they will return their owners more money, perhaps, than the fruit of some big years have produced. Fruit growers who have kept orchards in first-class condition are looking for a profitable crop. It could not be learned that buyers had as yet invaded this section, but they are working, with little results, this way, and their offers of \$4 per barrel for the fruit as it comes from the trees are not being accepted. Growers say that they expect to receive more than \$4 for their fruit.

Peaches are almost a total failure hereabouts. But the statement of Jay E. Allis, of Medina, Orleans Co., is interesting. "In my peach orchard," said Mr. Allis, "and I have over 60 acres of them, more than 30 in bearing the ground has been dragged more than half a dozen times this season. People have claimed all along that it was a needless waste of time and money to give the trees such attention, but when you stop to think that many peach orchards were winter-killed last year and will not bear to any great extent, and that I will have from 12,000 to 15,000 baskets, it shows that peach growing is a science. I will have better than 20 tons of plums and several hundred barrels of apples and many growers in the same locality will not harvest any at all. Already, I have sold my pears at \$5 per barrel, without barrels."

With no rain of consequence in some time, the crop situation is becoming more or less critical in several regards. Without rain, potatoes will not mature; and late oats will be materially affected. This was the statement of one of the most extensive farmers of this region. The drought has worked another transformation in the hazardous prospects of the agriculturist, with the result that whereas a few weeks ago he feared the result of cold, raw weather, he now fears that a relentless sun, without rain, will burn up his remaining crops.

Particular concern is felt for potatoes, farmers say. Late oats are not filling properly. However, with his usual optimism, the farmer is not worrying much. He looks for rain in time to save the potatoes and oats, and consoles himself with observing that

MICHELL'S MUSHROOM SPAWN

Our Mushroom Spawn is used by the leading growers throughout the country on account of its superior quality. Made by the same party who manufactured for us when we first embarked in the Seed business. He has upheld his reputation as a first-class English Spawn maker and this made our name prominent among the largest Mushroom Growers.

ENGLISH MUSHROOM SPAWN

15c per	Brick
\$1.40 "	12 "
1.75 for	25 Pounds
6.00 "	100 "
55.00 "	1000 "
250 pounds at 1000 pound rate	

PURE CULTURE SPAWN

20c per	Brick
\$1.80 for	12 "
3.25 "	25 "
7.00 "	50 "
13.50 "	100 "
115.00 "	1000 "

Our Advance Price List of Bulbs is Ready

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Christmas Flowering
Sweet Pea Seed

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Christmas Pink, Florence Denzer, white 1-4 lb 75c; 1 lb. \$2.00.

Mrs. E. Wild, new carmine red, 2 oz. 75c; 1-4 lb. \$1.50.

These popular Florists' Sweet Peas have been grown by

OVER 3000 FLORISTS

all over the world to the best satisfaction of the most critical growers, and

HAVE NO EQUAL.

Also 10 New Varieties offered for the first time, Salmon, Pink, Blue Purple, Yellow and Variegated in separate colors.

Ask for Descriptive Price List. These new varieties will be ready in September. Sweet pea Directions with every order.

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BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

the hot wave is "making corn hump right along." This weather is fine for corn, and indications now are that, despite the backwardness of the earlier season, the crop will be about normal in these parts. H. R. PEACHEY.

Irondequoit, N. Y.

MOVEMENTS OF GARDENERS.

John MacMillan, formerly gardener on the H. T. Proctor estate, Williams-town, has hired the Phelps greenhouses at Blackinton, Mass., and will take possession September 1.

NOW READY

Extra Quality

Paper White Narcissus

	Per 100	Per 1000
TRUE GRANDIFLORA 13 to 15 Centimeters 1250 to case	\$1.00	\$8.50
FRENCH WHITE ROMAN HYACINTHS 12 to 15 Centimeters	2.50	23.00
LILLIUM HARRISII 5 to 7 inch (400 in case)	4.75	45.00
" " 7 to 9 inch (200 in case)	8.50	
(per case of 200 16.00)		
PURE WHITE FREESIAS Selected 1/2, 3/4 inch	1.00	7.00
BERMUDA BUTTERCUP OXALIS 25 Bulbs at 100 rate	1.00	7.50

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BEGONIA
Gloire de Lorraine

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\$15.00 per 100

\$140.00 per 1000

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TOUGH AND STRONG

6ft long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO. - 50 Barclay St., New York

ZIRNCIEBEL'S GIANT PANSIES

Fresh Crop

Now Ready

Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNCIEBEL. None genuine unless sold by me.

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GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

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are grown from our
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Trade pkt. 75c, 1-4 oz. \$1.50, 1-2 oz. \$2.75, oz. \$5.00. New crop ready now.

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All the best varieties in separate colors
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My Plants are Fine. Cash with order, please.

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BAGE^E
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PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

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BODDINGTON'S EXTRA-EARLY CHRISTMAS WHITE SNOWBIRD. An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing. Color clear white upon long stems; habit fairly dwarf, and of exceptionally free flowering qualities. Trade pkt 50c., per oz. 30c., ½ lb. \$1, ¼ lb. \$1.50, lb. \$2.50.

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Two Hundred Varieties of Perennial Seeds

that can be sown now.

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Grey's Highest Grade of Tested Seeds

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A giant in size, flowers averaging 6 inches across, of a most delicate rose with the lower 3 petals having a conspicuous scarlet blotch with broad, white margin.

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¶ We offer strong healthy field grown plants ready for delivery August 10th to 20th (according to variety). In view of unfavorable season for some sorts early orders will fare best. We suggest wire orders when large lots are wanted.

	Per 100	Per 1000
Helen Goddard	\$8.00	\$70.00
White Perfection	9.00	80.00
Enchantress	7.00	60.00
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Queen Louise	6.00	50.00
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Boston Market	6.00	50.00
Harlowarden	6.00	50.00
Red Lawson	6.00	50.00
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per 100 per 1000		per 100 per 1000		per 100 per 1000	
White Lawson	\$7.00 \$60.00	Cardinal	\$6.00 \$50.00	Daybreak Lawson	\$8.00 \$75.00
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My. Maryland	7.00	Jessica	6.00 50.00	Candace	6.00
Fair Maid	6.00	White Perfection	8.00 75.00	Red Riding Hood	12.00 100.00
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As double as Bridesmaid and as free.
As red as Richmond and as fragrant.
As big as Beauty and as vigorous.
As easy to grow as Bride and quite as continuous in bloom.
Long and stiff of stem; with a grand appetite for rich food.
A perfect constitution which resists both mildew and black spot.

This splendid American will go to the trade March 1, 1908.
We recommend it as the freest of Winter forcers, and also as a perfect Summer bloomer.

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	100	1000
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Helen Goddard, \$8.00 per 100, \$70.00 per 1000. Robt. Craig, Mrs. Patten, Variegated Lawson, \$7.00 per 100, \$60.00 per 1000.

Queen Louise, Boston Market, The Queen, White Lawson, Mrs. T. W. Lawson, Red Lawson, Harlowarden, \$6.00 per 100, \$50.00 per 1000.

SMILAX, strong plants, 2½ inch pots, at \$3.00 per 100.

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Fair Maid, fine stock, \$7.00 per 100; \$60.00 per 1000
Imperial and Pink Imperial, \$12.00 per 100; \$100.00 per 1000. Mrs. M. A. Patten, Variegated Lawson, My Maryland, Mrs. Lawson, Enchantress, Jessica and Harlowarden, \$6.00 per 100.

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WHITE—Opah; Beatrice May \$5.00; Ivory, T. Eaton, White Coombs, Ben Wells. **PINK**—Mrs. W. B. Chamberlain, Wm. Duckham, Maud Dean, Leila Fil ins. **YELLOW**—M. J. Bonnation, Gen. Hurton, Yellow Eaton, Merstham Yellow, Col. Appleton, Mrs. Wm. Duckham, Golden Wedding, Golden Beauty. **RED**—Intensity, \$3.00. Geo. W. Childs, \$3.00; Lord Hopetoun, \$5.00. Our selection, including the above, and other good varieties, \$20.00 per 1000.

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Owing to the great demand for the field-plants of "John E. Haines" carnation, I am forced to discontinue taking any more orders for plants until September 20, when I will again have a fine lot coming in. My stock of the "Imperial" and "Pink Imperial" is considerably larger than the "Haines," have therefore still a fine lot of strong vigorous plants. Don't fail to get some of the "New Wonders."

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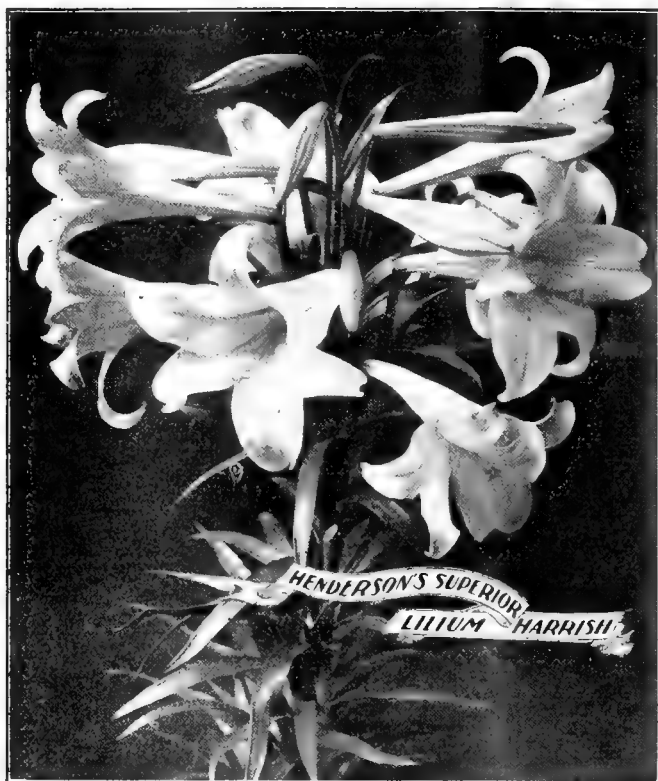
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\$6.00 per 100 \$50.00 per 1000
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"Superior and Thoroughly Satisfactory"

And our 1907 Crop of Bulbs is the finest and healthiest in several years, growing conditions in Bermuda having been exceptionally favorable this season.

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	Per 100	Per 1000
First Size, 5 to 7 in. Bulbs	\$4.25	\$40.00
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Mammoth Bulbs, 9 to 11 in.	18.00	175.00

Our Florists' Catalogue of Bulbs, Plants and Seeds for Fall Planting mailed to Florists on Application.

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Over 472,000 shipped to old and new customers. All orders from now on will be shipped next day order is received. A good many florists are ordering Bulbs to plant after chrysanthemums are pulled out. I prepay freight when cash comes with order. If wanted by express I prepay 2½c. per lb., you pay balance. 25 at 100 rates, 250 at 1000 rates.

Calla Ethiopica, 10 inches circumference	100	1000
9	\$10.00	\$90.00
8	9.00	80.00
7	8.00	70.00
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	4.50	35.00
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The above Bulbs will all bloom 1 year.

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JOSEPH HEACOCK COMPANY

Growers of Kentias

Write for price list.

WYNCOTE, PA.

A ROYAL HORTICULTURAL SHOW.

On July 23 an excellent display was made. G. Bunyard & Co had a representative exhibit of hardy perennials shown in large bunches like sheaves making a grand spectacle. Veitch & Son contributed, among other things, cut flowers of *Rhododendron Javanojasminiflorum* hybrids—plants which thrive in an intermediate or warm greenhouse. They are very floriferous with neat leathery foliage. *Ne plus ultra*, scarlet, *Souvenir de J. H. Mangles* a lovely warm rose-pink, *Purity* the best white, and *Imogene* a buff-shaded yellow, while *Brilliant* is well worthy of its name. They again showed market-sized plants of the useful dwarf double *Begonia*, *Washington scarlet*, and *Col. Lousedat*—a true yellow. A new *Lobelia*—*Richardsoni*—will prove a very useful basket plant. *Haemanthus puniceus* is an improved form of the well known *Natalensis*. A seedling *Disa*—called "*Luna*," stated to be as hardy as the type—will be very useful among other cool subjects. Cheal & Son, put up lupines, veronicas and a few flowers of the monster *Chrysanthemum maximum*, Mrs. Lothian Bell—too coarse to be pleasing. H. Low & Co. showed small and large pots of *Baby Dorothy* which is simply a dwarf floriferous form of the favorite *Dorothy Perkins*. S. Bide & Sons showed their new Hybrid Tea Rose, *Queen of Spain*, which they state is a seedling from *Antoine Rivoire*; it closely resembles the old *Souvenir de la Malmaison*. It took the gold medal of the N. R. S. on the 4th inst., and has doubtless come to stay.

Barr & Son had a good collection of eucalypti from seed sown in January, most of them well-known *citrodorum*, etc., but one named *amygdalina*, with slightly almond-scented foliage, promises to make a light and graceful decorative market plant; others as *coccifera* and *erythronema*, are of merely botanical interest though pretty when young. H. B. May had again *Ixora Fraseri* and the gorgeous *macrothyrsa*, both indispensable plants for exhibition, also an improved oleander—*Nerium rosea splendens*—of dwarf branching habit and free flowering even in a small state so bound to be useful to the florist. *Davallia tenuifolia Veitchii* is a lovely attenuated

squirrel's foot fern. Major Holford had lovely *cattleyas*—one with a long title '*gigas Lord Rothschild magnifica*.' Some of his *Sophrora-laellias* were lovely, *Orpetiana* being particularly brilliant in color. T. Cripps & Son put up a good group of *Disagrandiflora*. I. Dutton (Iver) had a lovely lot of carnations and picotees.

Lord Aldenham set up a grand table of cut shrubs both in flower and variegated and other foliage. One named *Danea laurus* was our old and useful *Alexandrian Laurel*, *Ruscus racemosa*. Why will not Kew leave us alone in our happy ignorance? *Rubus ulmifolia* is an elegant silver-variegated bramble, and *Carpinus betulus aureis* is as bright as Russell's *Ligustrum ov. aureum* and if it does not burn will prove a first rate rival hedge plant. *Berberis vulgaris purpurea* (*Aldenhams* var) is grand, and contrasted charmingly with *Prunus orientalis*—with silvery foliage. *Cornus alba Spathe* is yet the best garden subshrub, but it must have a dry, somewhat shady spot to keep bright. From the same fine garden came a lot of hybrid *streptocarpa*, red, white and rich purples, with grand foliage, some two feet long!

THOMAS BUNYARD,
London, Eng.

OBITUARY.

Julius V. Fuller, a gardener employed by Kirchner & Butler, of Pittsfield, Mass., died suddenly on August 11 while on a vacation trip. A widow and a daughter survive him.

The death of Thomas J. Johnston, who passed away suddenly at his home on the morning of August 16, removes one of the best known and most popular florists in Providence, R. I. Mr. Johnston was but forty-two years of age; he has been identified with every horticultural movement in his section, and an active worker in the florists' club. The business which he has conducted for many years on Weybosset street will be carried on by his widow, who with two sons survives him.

Secretary F. P. Fenton of the Horse-shoe Park Agricultural Association, Willimantic, Ct., is arranging for a big flower show in connection with the coming fair. Florists and local growers of dahlias will be asked to contest for special prizes to be offered.

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Just to hand, *C. Trianae*, *C. labiata*, *C. Mossiae*, *C. Intermedia*, *C. Schroederiae*, *C. Speciosissima*, *C. Citrina*, *C. Gaskelliana*, *Laelia anceps*, *L. Albida*, *L. majalis*, *L. autumnalis*, *Epidendrum Vittelnum majus*, *E. Cooperianum*, *Oncidium Crispum*, *O. varicosum*, *O. Cavendishianum*, *O. Luridum*, *Odontoglossum*, *Citrosium*. To arrive in a short time, *C. Dowiana*, *C. Aurea*, *C. Warnerii*, *Miltonia Vexillaria*.

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NEWS OF THE CLUBS AND SOCIETIES

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

The American Association of Park Superintendents held its annual convention in Toronto, Can., August 15-17, with headquarters at the Queen's Hotel and business sessions at the City Hall. The convention was well attended and was one of the most successful gatherings of the association since same launched out into a national society.

Some of the eastern members had difficulty in reaching the convention town in time on account of delays while en route, but the program was nevertheless carried out to the letter. The first day was spent on a carriage drive through the city and parks, taking in the most important public buildings and grounds and winding up with the exhibition grounds and High Park, where a luncheon was served at the Casino. Here the delegates were welcomed by the chairman of the Public Grounds Committee of the Board of Aldermen, representing the Mayor of Toronto. The very cordial welcome so extended was fittingly responded to by J. F. Cowell of Buffalo, N. Y. In the evening a business session took place at the City Hall. Theodore Wirth, superintendent of parks of Minneapolis, then read a short paper on Band Concerts in Local or Neighborhood Parks, in which he strongly advocated that such free concerts be given in the smaller parks, especially in densely populated districts. The reading of the paper brought forth a lively discussion on this timely subject and the majority of those present expressed themselves as much in sympathy with the suggestion. It was near midnight when the session came to an end.

The second session took place Friday morning at which the secretary's and treasurer's reports were received and other association matters were discussed. In the afternoon the delegates were treated to a sail over the harbor on a special steamer and the breakwater was visited, also the different island parks. This trip took up the entire afternoon and was a very pleasant affair ending with a tent luncheon on the lawns and under the trees of the island, the existence of which in place of sandbars and swampy land, the Toronto people very gratefully acknowledge to be the result of the work of their faithful and energetic commissioner and superintendent, John Chambers. Some very happy speeches were made on the part of both hosts and guests.

It was indeed a very congenial, sociable and happy party that landed that evening from that little steamer, and so refreshing and invigorating was the air of Lake Ontario that without exception every member attended the third business session which took place at 8 p. m. and lasted till after 11 o'clock. Mr. John Dunbar of Rochester read a very interesting paper on Trees and Stocks Little Used or Known in Park Work which was

followed by a general discussion as to the hardiness and adaptability of many specimens mentioned. Dr. Frank Baker of Washington, D. C., followed with a paper in which he thoroughly advocated the use of parks along more utilitarian lines than is at present the case in many cities; that more attention and room be given to outdoor games, school gardens and zoological collections. The suggestion regarding games, playgrounds, and school gardens was most favorably received by all present. Mr. Wirth was of the opinion that zoological gardens were very desirable and instructive and that all large cities should have them, but that sufficient special appropriations for such purposes should be made, and that no park department already short of funds for the performance of its regular duties, should be burdened with cheap menageries which at their best are but a poor side show and no credit to the department of the city. This view seemed to meet with approval of the majority of the delegates present. This brought the discussions to an end and the final business was the election of officers which resulted as follows:

President, John F. Cowell, Buffalo, N. Y.; vice-presidents, John Chambers, Toronto, Can., W. R. Adams, Omaha, Neb., John Dunbar, Rochester, N. Y., G. X. Amrhy, New Haven, Conn., J. W. Thompson, Seattle, Wash., Jackson Dawson, Boston, Mass.; secretary and treasurer, F. L. Mulford, Harrisburg, Pa. Harrisburg, Chicago, and the Twin Cities were candidates for the next convention and Minneapolis and St. Paul were finally chosen.

NEW ORLEANS HORTICULTURAL SOCIETY.

The regular meeting of this society was held on August 15. The chrysanthemum show committee reported that they had been unable to secure a suitable hall, or meet the Ladies' Floral Society, as most of the officers and members were away from the city. President Eble exhibited his new fern (yet unnamed), a sport from Anna Foster, which was awarded a certificate of merit. Otto Abele was reported to be slowly improving. P. A. Chopin invited the society to hold the next regular meeting at his residence, which invitation was duly accepted.

President Eble, U. J. Virgin and H. Papworth will attend the S. A. F. convention.

GREENWICH GARDENERS' SOCIETY.

At a meeting of the society held at the store of McMillen & Co., Greenwich, Ct., President Silas Frost in the chair, the constitution and by-laws were presented by Mr. McMillen and accepted. The executive committee were instructed to have membership blanks printed. The movement to hold a fall flower show was abandoned. Mr. McMillen read a very interesting essay on herbaceous plants, and a lively discussion followed. A vote of thanks was tendered him for his essay. The next meeting will be held September 4.

AMERICAN APPLE GROWERS' CONGRESS.

The apple growers held a two days' convention in St. Louis in the parlors of the Southern Hotel. Nearly every State in the Union was represented and the attendance numbered 150. President Dunlap, Secretary Wilson and Treasurer Green were all present when the meeting was called to order Tuesday morning, August 13th.

William A. Taylor, promologist of the Department of Agriculture, in an address, declared that the quarantine maintained by Germany on account of the San Jose scale, was unnecessary, inasmuch as the scale did not spread to foreign countries by means of the fruit. Experience of years has proved this, he said.

Professor Taylor said indications pointed to the removal of restrictions, and that commercial treaties with foreign countries would be beneficial to the fruit growers of the United States. Germany now has a tariff of \$1.55 a barrel on American apples, but it is held in abeyance until July, 1908, and a tariff of only 50 cents collected, with the San Jose scale inspection.

Other speakers were, Professors M. B. White and W. M. Scott, pathologists of the Department of Agriculture; James A. West, Assistant State Entomologist of Illinois; L. A. Goodman, Kansas City; M. L. Dean, Pontiac, Mich.; Wesley Green, Des Moines, Ia., and M. Burton, Indiana.

On Wednesday the Congress adopted a report of its Committee on Tariff Changes, urging a reciprocity treaty with Germany and France, and the removal by these two countries of the ban on American apples picked from San Jose scale-infected orchards. The crop will be very short this year.

The principal address of the morning was made by Irl R. Hicks, of St. Louis, on the effect of weather condition on the apple crop. F. H. Simpson, Flora, Ill.; Major J. Mack Tanner, Springfield, Ill., and Colonel Richard Dalton spoke during the day.

The meetings were closed with an address by former Lieut.-Gov. Norman J. Colman, of St. Louis, who spoke on the pure-food law and its effects on the apple grower and on cider-making.

Officers of the congress were re-elected: H. M. Dunlap, of Savoy, Ill., president; T. C. Wilson, Hannibal, secretary; Judge W. R. Wilkinson, of St. Louis, was elected vice-president of the congress and of the Missouri department.

It was also decided to meet in St. Louis, August 14 and 15, 1908. In the evening the delegates were guests at the Shaw banquet on invitation of the Missouri Botanical Garden.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The club will hold a field day at the Bay State Nurseries, North Abington, on Saturday, August 31st. Members and friends will take the 12.43 train at South Terminal Station. Through the kindness of Mr. Wyman lunch will be served on the arrival of the visitors,

after which an inspection of the extensive and up-to-date nurseries will be made. Trains return to Boston 5.37 and 6.37. A cordial invitation is extended to any interested non-members to join in the field day. Ladies are specially invited.

A field day will be held at the dahlia farm of W. W. Rawson & Co., at Marblehead on September 21, to inspect the collection of 900 varieties of dahlias growing there.

The speaker of the next meeting of the club on September 17 will be R. G. Leavitt of North Easton. This meeting promises to be of special interest and a big attendance is assured.

W. N. CRAIG, Secretary.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The last of the Saturday summer shows of the Massachusetts Horticultural Society in Horticultural Hall presented an attractive variety of flowers, fruits and vegetables. W. W. Rawson & Co. had a large vase of Gladiolus Harvard which attracted much attention, and a spike of a later claimant for honors, Kathryn, to which a first-class certificate of merit was awarded. Phlox was displayed in great variety, a first award being given to T. C. Thurlow; the asters and gladioli shown by Wm. Whitman and the sweet peas by Mrs. J. B. Lawrence were also in the prize class. Edward Parker, E. C. Lewis and W. J. Clemson were contestants for the best collection of vegetables in which the decorative arrangement was considered.

The florists of Scranton, Pa., enjoyed their annual outing to Moosic Lake August 14. All their places of business in the city were closed during the day.

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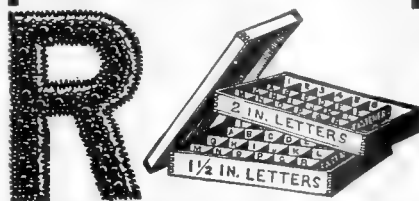
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WHOLESALE FLOWER MARKETS
TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO August 19	TWIN CITIES August 6	PHILA. August 13	BOSTON August 22
ROSES				
Am. Beauty, Special.....	25.00 to 30.00	20.00 to 30.00	20.00 to 25.00	15.00 to 25.00
" Fan, & Ex.....	15.00 to 20.00	12.50 to 17.00	15.00 to 18.00	10.00 to 12.00
" No. 1.....	10.00 to 12.00	10.00 to 10.00	8.00 to 12.00	6.00 to 8.00
" Lower grades.....	6.00 to 8.00	3.00 to 5.00	3.00 to 5.00	.50 to 3.00
Bride, 'Maid, Golden Gate, F. & S.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	3.00 to 4.00
" " " Extra.....	4.00 to 5.00	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00
" " " No. 1 & lw. gr.....	2.00 to 3.00	2.00 to 3.00	1.00 to 2.00	.50 to 1.00
Liberty, Richmond, Fan, & Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	3.00 to 4.00
" " Lower grades.....	3.00 to 4.00	3.00 to 4.00	1.00 to 3.00	.50 to 2.00
Chatenay, Morgan, Fan, & Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	2.00 to 3.00
" " Lower grades.....	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	.50 to 1.00
Kaiserin, Carnot, Fan, & Sp.....	5.00 to 6.00	4.00 to 6.00	6.00 to 8.00	3.00 to 5.00
" " Lower grades.....	3.00 to 4.00	3.00 to 4.00	2.00 to 5.00	1.00 to 2.00
Killarney, Wellesley, Fan, & Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	3.00 to 4.00
" " Lower grades.....	3.00 to 4.00	3.00 to 4.00	1.00 to 3.00	.50 to 2.00
CARNATIONS				
Fancy and Novelties.....	2.00 to 3.00	1.50 to 2.00	2.00 to 2.50	1.00 to 1.50
Ordinary.....	.75 to 1.50	.75 to 1.00	1.00 to 1.50	.50 to .75
MISCELLANEOUS				
Sweet Peas.....	.25 to .75	.50 to .75	.20 to .50	.10 to .20
Cattleyas.....	50.00 to 60.00	35.00 to 60.00	60.00 to 60.00	35.00 to 60.00
Lilies.....	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	6.00 to 8.00
Lily of the Valley.....	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Asters.....	1.00 to 3.00	1.00 to 2.00	1.00 to 2.00	.50 to .75
Gladioli.....	2.00 to 4.00	2.00 to 6.00	1.00 to 5.00	1.00 to 3.00
Adiantum.....	.75 to 1.50	.75 to 1.00	1.00 to 1.50	.50 to 1.50
Smilax.....	12.00 to 15.00	12.00 to 15.00	10.00 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00	35.00 to 50.00	35.00 to 50.00 to 50.00
" " & Spreng. (100 bchs.)	25.00 to 50.00	35.00 to 50.00	35.00 to 50.00	20.00 to 50.00

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FLOWER MARKET REPORTS

BOSTON There has not been much of a market the past week, business being more than ordinarily quiet. Asters have been received in large quantities also gladioli the latter being the best seen in this city for years but the prices received have been low in comparison to the quality of the stock. American Beauty roses have been the principal mainstay with but little demand at that. No. 2 and 3 roses although the supply is plentiful are hard to dispose of. Sweet peas have fallen behind this year both in quality and number owing mainly to the long continued dry weather.

BUFFALO Dullness still prevails in the cut-flower line, though stock has not been too plentiful. The early varieties of asters are in full swing and the fancy stock has been selling rapidly; as for short stems and ordinary, again too many as usual. Gladioli are improving daily, but mostly mixed varieties. Roses are coming in more plentifully, especially the cuts from young stock. Beauties are not of the best quality, though good considering cutting from old plants. Lily of the valley is still on the quiet list. Smilax and other greens plentiful. Longiflorum and Japan lilies are to be had in fine quality, demand fairly good.

INDIANAPOLIS The market continues on its course of mid-summer dullness. Asters are the main supply and are overabundant with prices demoralized. In roses the supply is equal to the limited demand. The new crop of Beauties are mostly short and medium stem. Gladioli are now fine and much used for window decoration. All kinds of lilies are plentiful and hard to move satisfactorily. Growing weather is still favorable, consequently there is a large surplus of outdoor flowers. Ferns and galax are more plentiful than last noted while fancy greens are a little short. Growers all report very satisfactory conditions in the chrysanthemums houses. About 25 per cent. more plants are being grown this year than last.

PHILADELPHIA Market only so-so last week. No marked activity along any line. Beauties were not very plentiful. Quality was all right and what few came in found ready sale. Kaiserins were fairly plentiful and found ready takers. Quality fully up to the average. Killarney sold better than Bridesmaids as a rule—a marked improvement is to be noted in former item. Brides were generally of poor quality and went slow. Libertys are keeping their end up and make their way at satisfactory prices. There are very few carnations on the market and these are averaging low grade. Lily of the valley is a very satisfactory stock on the whole. The quality is all that can be expected, and moves fairly well. Asters are between wind and water. The early crop is almost over and the midseason not quite in. A little later we look for better things; the "real thing" will loom up very soon. Gladioli are fine but move rather sluggish. Orchids might be called scarce, as there is a lean to the demand side. But a very little either way would demoralize the market as the call is only normal. Outdoor materials such as hydrangea, physostegia, lathyrus and gypsophila are plentiful, but there is no brisk call. It is a buyers' market. The buyer can have anything he wants at his own price. Sorry.

WASHINGTON The quiet condition of the cut flower market remains unbroken. We can not reasonably hope for any activity in that line though until after September 15th., when Washingtonians now absent at the sea-side resorts will begin to return to the city. Nearby asters are commencing to come in, and bid fair to be very good. Outside roses of the Tea family are coming in in good quantities but are short of stem, and do not command first-class prices. A few field carnations are beginning to blossom, but their quality does not commend them to the public. All eyes and thoughts are turned to the S. A. F. now in session in Philadelphia.

INCORPORATED.
Akron Floral Co., Akron, O., by E. M. Smith and others; capital, \$10,000.
Central Nursery and Floral Co., Kalamazoo, Mich.; capital, \$50,000.

BUSINESS CHANGES.

M. Lowery has purchased the interest of his partner in the business conducted by F. J. Baker & Co., Utica, N. Y.

A. Dallas, of Waterbury, Ct., has purchased the business of the West Side Hill Greenhouses and will continue the greenhouses and retail store under the same name.

The business of J. W. Bernard, at Marion, Ind., has been purchased by Gunnar Teilmann who after remodeling thoroughly will carry it on in connection with his present business.

The business carried on for the past twenty years by Thomas Vincent on West Baltimore street, Baltimore, Md., has been disposed of to George F. Lurssen, and the place will be known as The Flower Garden.

NEWS NOTES.

A. F. Longren has started in business at Des Moines, Ill. Carnations will be his specialty.

L. C. Hecock, Elyria, O., has sold his Lodi street place and will locate his greenhouses farther out of town, his store being on Broad street.

Fuhlbruegge Bros., Winona, Minn., were the victims of a heavy storm on August 6 which broke considerable glass and destroyed many plants.

Fire from an unknown source destroyed the greenhouses and stable of Patrick Kieran, superintendent of the water works department, Portsmouth, R. I., on August 12.

A cyclone and cloudburst which swept over the entire region from Bismark, N. D., to Duluth, Minn., centering about St. Paul, did serious damage to the crops on August 18.

Frank Oeschlein, Chicago, Ill., has transferred his entire business to Adams street and Forty-ninth avenue, where several new houses will be added to enable him to cope with his increasing trade.

**NOTICE OF
SALE of STALLS
Boston Co-Operative
Flower Market
MUSIC HALL PLACE
WEDNESDAY, AUG. 28, 1907. ALL ARE INVITED.**

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Carnations**51 West 28 St. - NEW YORK****FORD BROTHERS**

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FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

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The Reliable Commission HouseRichmond Roses and Rich Flowers
of all varieties**JOS. S. FENRICH**

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GRADE OF **VALLEY** ALWAYS
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57 West 28th St.

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Special Attention to Shipping Orders Telephone: 2200, 2201, Madison Square Write for Current Prices

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Ready to talk with growers about consignments for coming season

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Aug. 17 1907	First Half of Week beginning Aug. 19 1907		Last Half of Week ending Aug. 17 1907	First Half of Week beginning Aug. 19 1907
Roses			Carnations, Fancy and Novelties..	1.00 to 1.50	1.00 to 1.50
Am. Beauty, fan and sp.	10.00 to 15.00	10.00 to 15.00	" Ordinary .....	.50 to 1.00	.50 to 1.00
" extra	6.00 to 8.00	6.00 to 8.00	Sweet Peas (100 bunches).....	1.00 to 1.50	1.00 to 1.50
" No. 1.	2.00 to 3.00	2.00 to 3.00	Cattleyas.....	20.00 to 50.00	15.00 to 50.00
" Lower grades .....	.50 to 1.00	.50 to 1.00	Lilies.....	3.00 to 5.00	3.00 to 5.00
Bride, 'Maid, Golden Gate, fan & sp	1.00 to 4.00	1.00 to 4.00	Lily of the Valley.....	1.00 to 2.00	1.00 to 2.00
" lwr. grds. ....	.25 to .50	.25 to .50	Asters.....	.50 to 1.00	.50 to 1.00
Liberty, Richmond, fancy & special	1.00 to 4.00	1.00 to 4.00	Gladioli.....	.50 to 2.00	.50 to 2.00
" lower grades ..	.25 to .50	.25 to .50	Adiantum.....	.50 to .75	.50 to .75
Chatenay, Morgan, fancy and spec.	1.00 to 4.00	1.00 to 4.00	" Croweanum.....	1.00 to 1.50	1.00 to 1.50
" lower grades ..	.25 to .50	.25 to .50	Smilax.....	8.00 to 12.00	8.00 to 12.00
Killarney, Wellesley, fan. and spec.	1.00 to 4.00	1.00 to 4.00	Asparagus Plumosus, strings....	20.00 to 30.00	20.00 to 30.00
" lower grades..	.25 to .50	.25 to .50	" " & Spren. (100 bchs.)	10.00 to 25.00	10.00 to 25.00

ORCHIDS AT ALL SEASONS**WM. STUART ALLEN CO.**

Commission Merchants in Cut Flowers

53 WEST 28TH STREET, NEW YORK

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Edward C. Horan**Wholesale Florist**

55 WEST 28th ST.

Tel. 1462 Madison Square New York
1463**TRAENDLY & SCHENCK**
WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on fall orders

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Alexander J. Guttman**THE WHOLESALE FLORIST OF NEW YORK**

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HARDY FANCY CUT FERNS, Extra fine, \$1 per 1000

BRONZE GALAX, \$1.25 per 1000.

SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25

Hammond's Old English Liquid Putty, \$1.25 per Gal. Hammond's Greenhouse White Paint, \$1.50 per Gal.

DISCOUNT ON LARGE LOTS

Give us a trial order on ferns; we are sure we can please you. Headquarters for Florist Supplies and wire work.

Write for price list on cut flowers and supplies.

MICHIGAN CUT FLOWER EXCHANGE, INC.,

Wholesale Commission Florists,

38-40 Broadway, Detroit, Mich.

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Headquarters in Western New York
FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

Wm. F. Kasting Co.

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.

BUFFALO, N. Y.

Give us a trial. We can please you.

FRANK S. HICKS & CO.
Wholesale Florists.

Open Now for Consignments of Cut Flowers.

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Tel. 2920 Mad. Sq.

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Wholesale Florist

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55-57 West 26th St., New York City.

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Best Flowers

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Cut spikes in any quantity from
Selected White and Light Shades;
Selected Mixed Colors and Named
Varieties of Exceptional Beauty.

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Gladiolus Specialist

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Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

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CULTURE? I always look it over be-
fore I do any buying.

WHOLESALE FLOWER MARKETS.—PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	August 20		August 12		August 19		August 20	
ROSES								
Am. Beauty, Fan. and Sp.....	15.00	to 25.00	20.00	to 25.00	20.00	to 25.00	20.00	to
“ Extra	10.00	to 12.00	15.00	to 20.00	15.00	to 20.00	12.50	to
“ No. 1	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	6.00	to
“ Lower grades	3.00	to 6.00	2.00	to 3.00	3.00	to 8.00	2.00	to
Bride, 'Maid, Golden Gate, F. & S. ....	.....	to 6.00	4.00	to 6.00	6.00	to 7.00	4.00	to 6.00
“ “ “ Extra	3.00	to 5.00	4.00	to 6.00	4.00	to 6.00	.....	to
“ “ “ No. 1 & lw. gr.	5.00	to 6.00	3.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Liberty, Richmond, Fan. & Sp.	3.00	to 4.00	4.00	to 6.00	6.00	to 8.00	2.00	to 4.00
“ Lower grades	5.00	to 6.00	3.00	to 4.00	3.00	to 6.00	.....	to
Chatenay, Morgan, Fan. & Sp.	3.00	to 4.00	4.00	to 6.00	6.00	to 8.00	.....	to
“ Lower grades	2.00	to 3.00	3.00	to 4.00	3.00	to 6.00	.....	to
Kaiserin, Carnot, Fan. & Sp.	5.00	to 6.00	4.00	to 6.00	6.00	to 7.00	4.00	to 8.00
“ Lower grades	3.00	to 4.00	3.00	to 4.00	3.00	to 6.00	2.00	to 4.00
Killarney, Wellesley, Fan. & Sp. ....	.....	to 6.00	4.00	to 6.00	6.00	to 7.00	.....	to 6.00
“ Lower grades .....	.....	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
CARNATIONS								
Fancy and Novelties .....	.....	to 2.00	.....	to	1.50	to 2.00	1.00	to 1.50
Ordinary .....	.75	to 1.00	1.00	to 1.50	1.00	to 1.25	.....	to .50
MISCELLANEOUS								
Sweet Peas .....	.....	to .25	.....	to .25	.15	to .50	.25	to .50
Cattleyas .....	.....	to .....	.....	to 50.00	50.00	to 60.00	50.00	to 60.00
Lilies	8.00	to 10.00	.....	to	4.00	to 15.00	8.00	to 15.00
Lily of the Valley	3.00	to 4.00	.....	to 4.00	3.00	to 4.00	4.00	to
Asters .....	.50	to 2.00	.75	to 1.00	.25	to 2.00	.50	to 1.50
Gladioli	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Adiantum .....	.....	to 1.00	1.00	to 1.50	.50	to 1.50	1.00	to 1.50
Smilax	10.00	to 12.00	15.00	to 20.00	.....	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings	35.00	to 50.00	to 50.00	40.00	to 50.00	30.00	to 50.00
“ “ & Sprea. (100 bchs.)	to 25.00	20.00	to 30.00	25.00	to 35.00	20.00	to 40.00



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Hardy Cut FERNs

FIRST QUALITY 75c per 1000

ALSO DEALER IN

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Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dysart, 28 State St., Boston.
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Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Adiantum Hybridum, 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

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51 and 52 N. Market St., Boston.
For page see List of Advertisers.

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For page see List of Advertisers.

Fall delivery. Our stock will please you.
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11th and Roy Sts., Philadelphia, Pa.

For page see List of Advertisers.

F. C. Riebe, Webster, Mass.
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Asparagus Sprengerii, 2 1/4 in.; ready for planting out or into larger pots. \$2.50 per 100; \$20.00 per 1000; 500 at 1000 rates. J. F. Anderson, Short Hills, N. J.

Asparagus plumosus nanus and *Sprengerii*, 2 1/2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Elliott St., Buffalo, N. Y.

Plumosus, 2 1/2-in., \$3.50 per 100, \$30 per 1000; 3, 3 1/2, 4, 5 and 6-in., 6, 10, 12, 20, and 30c. respectively. Cormorensis, 2 and 2 1/2-in., 3 and 4c. *Sprengerii*, 2 1/2, 3 1/2, and 4-in., 3, 8 and 10c. J. W. Dunford, Clayton, Mo.

AZALEAS

John Scheepers & Co., 4 and 6 Old Slip, New York.

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The best commercial varieties. J. W. Dunford, Clayton, Mo.

BAMBOO CANES

Stumpp & Walter Co., 50 Barclay St., New York.

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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEGONIAS

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.

Begonia Gloire De Lorraine.
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Begonias—Fairy Queen, Gracilis, and other flowering kinds; 3 inch \$5 per 100. Harlowarden Greenhouses, Greenport, L. I.

BOILERS

BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
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H. F. Mitchell Co., Philadelphia.

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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4 and 6 Old Slip, New York.

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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

Lilium Harrisii and Freesia Bulbs.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.

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James Vick's Sons, Rochester, N. Y.
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D. Rusconi, 32 W. Sixth St., Cincinnati, O.
Callas, Narcissi, Dutch Bulbs.

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Peter Henderson & Co., 35 & 37 Cortlandt St., New York.

Lilium Harrisii Bulbs.

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Wm. Elliott & Sons, 201 Fulton St., New York.

Lily Bulbs.

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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.

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Chicago Carnation Co., Joliet, Ill.

Carnation Aristocrat.

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John E. Haines, Bethlehem, Pa.

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Imperial, Pink Imperial.

Harlowarden Greenhouses, Greenport, N. Y.
Field Carnations.

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S. S. Pennock-Meehan Co., The Wholesale Florists of Philadelphia, 1608, 1610, 1612, 1614, 1618 Ludlow Street.

Field Grown Carnations.

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CARNATIONS—Continued

Sheppard Garden Carnation Co., 292 Fairmount St., Lowell, Mass.

Field Growing Carnations.

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Leo Niessen Co., 1200 Arch St., Phila.

Field Grown Carnations.

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Paul E. Richwagen, Needham, Mass.

Field Grown Carnations.

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Strong field plants of Red, Variegated, and Daybreak Lawson, Helen Goddard, \$6 per 100, Harlowarden, \$5 per 100. R. D. Kimball, Waban, Mass.

I have about 5000 very fine bushy carnation plants which have not been picked over; the varieties are Queen, Fair Maid, Maceo and Enchantress. I will sell them while they last for \$5.00 per 100 and guarantee satisfaction. Wilfred Wheeler, Concord, Mass.

CATALOGUE MAKING

J. Horace McFarland Co., Harrisburg, Pa.

CHRYSANTHEMUMS

The H. Weber & Sons Co., Oakland, Md.
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C. Elsele, 11th and Roy Sts., Phila.

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Chas. H. Totty, Madison, N. J. Chrysanthemum novelties.

Chrysanthemums—All good late kinds, standard novelties out of 2 1/2 inch, up to September 1. Harlowarden Greenhouses, Greenport, N. Y.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2 1/2 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

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Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.

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David Herbert & Son, Atco, N. J.

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A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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Robt. Craig Co., Market & 49th Sts., Philadelphia.

DRACAENAS

Dracaena terminalis from bench, fine.
\$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, Indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

EVERGREENS

Bay State Nurseries, N. Abington, Mass.
Small Evergreens.

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August Rolker & Sons, 31 Barclay St., New York. Small evergreens.

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FERNS

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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.

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Siebrecht & Son, Rose Hill Nurseries,
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Stumpp & Walter Co., 50 Barclay St.,
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Ferns in Flats.

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W. P. Craig, 1305 Filbert St., Philadelphia.
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F. R. Pierson Co., Tarrytown-on-Hudson,
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Nephrolepis Superbissima.

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J. D. Breneman, Harrisburg, Pa. (Box 24).
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F. C. Riebe, Webster, Mass.

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Geo. A. Kuhl, Pekin, Ill.

Boston Ferns.

Ferns, August prices: Boston and Peirson, 6-in., \$30 per 100; 4-in. \$10 per 100. Stock very strong. J. T. Cherry, Athens, Ill.

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Pittsburg, Pa.

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J. Stern & Co., 125 No. 10th St., Philadelphia, Pa.

The Pine Tree Silk Mills Co., 806-810 Arch St., Philadelphia.

Florists' Ribbons.

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J. Breitmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.

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George H. Cooke, Washington, D. C.

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Gude Bros. Co., 1214 F St.,
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Samuel Murray, 1017 Broadway,
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Young & Nugent, 42 W. 23th St., N. Y.

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Theodore Miller, 4832 Delmar Rd.,
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P. J. Hauswirth, 232 Michigan Ave.,
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William J. Smyth, Michigan Ave and 31st
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Thos. F. Galvin, 124 Tremont St., Boston.

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Jacob Schulz, 644 4th Ave., Louisville, Ky.

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Atlanta Floral Co., Atlanta, Ga.

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David Clarke's Sons, 2139-2141 Broadway,
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W. H. Donohoe, 2 W. 29th St., New York.

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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.

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Pennock Bros., 1514 Chestnut St., Phila.

Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

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Washington, D. C.

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A. H. Hews & Co., Cambridge, Mass.

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H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston.

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Michigan Cut Flower Co., 38 & 40 Broad
way, Detroit, Mich.

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Stumpp & Walter Co., 50 Barclay St.,
New York.

Gardenia Plants.

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Arthur Cowee, Meadowvale Farm, Berlin,
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John Lewis Childs, Floral Park, N. Y.
Gladiolus Blooms.

W. W. Rawson & Co., 5 Union St., Boston.
Gladiolus Harvard.

Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury
St., Boston.

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GLASS, High Grade, Double Thick Green-
house Glass. Lord & Burnham, 1133 Broad-
way, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.

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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

GRADING AND PLANTING

D. Robinson's Sons, Revere Beach Park-
way, Everett, Mass.

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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.

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Hitchings & Co., 1170 Broadway, N. Y.

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A. T. Stearns Lumber Co., Neponset, Boston.

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King Construction Co., N. Tonawanda, N. Y.

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J. C. Moninger Co., 117 East Blackhawk St.,
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Metropolitan Material Co., 1398-1408 Metro-
politan Ave., Brooklyn, N. Y.

D. Iliffe, 49 Washington St., Boston.

Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-
Iron Greenhouses, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.

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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B.
Improved V Shaped Gutter with drip
attachment. Lord & Burnham, 1133
Broadway, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston, Mass.

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Michigan Cut Flower Exchange,
38 & 40 Broadway, Detroit, Mich.

Fancy Ferns.

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L. B. Brague, Hinsdale, Mass.

Hardy Cut Ferns.

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A full line of ferns, galax, and all wild
greens. N. F. McCarthy & Co., 84 Haw-
ley St., Boston.

In writing to Advertisers kindly mention Horticulture

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Bay State Nurseries, N. Abington, Mass.
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W. W. Castle, 170 Summer St., Boston.

HYDRANGEAS.

The E. Y. Teas Co., Centerville, Ind.
Hydrangea Everblooming.

INSECTICIDES.

Nicotinide kills all greenhouse pests.
P. R. Palethorpe Co.,
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Andrew Wilson, Summit, N. J.
Plant Oil Insecticide.

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David Clarke's Sons, 2139-2141 Broadway,
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Pennock Bros., 1514 Chestnut St., Phila.

Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILACS

August Rolker & Sons, 31 Barclay St., New York.

Forcing Lilacs.

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LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NICO-FUME

Kentucky Tobacco Product Co., Louisville, Ky.

NIKOTEEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Southworth Bros., Beverly, Mass.
American Arbovitae, Spruces, Pines.

Andorra Nurseries, Chestnut Hill, Pa. Wm. Warner Harper, Prop.

Samuel C. Moon, Morrisville, Pa.

Nursery Stock. N. F. McCarthy & Co.,
84 Hawley St., Boston, Mass.

Bobbink & Atkins, Rutherford, N. J.
Hardy Perennials: Specimen Evergreens:
Ornamental Shade Trees: Shrubs.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Importers, Exporters, Growers, Hybridists.
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Carrillo & Baldwin, Secaucus, N. J.
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Seibrecht & Son, Rose Hill Nurseries,
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Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.

Orchids, Orchid Baskets, Peat.
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Ordenez Bros., Madison, N. J., Box 105.
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Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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August Rolker & Sons, 31 Barclay St., New York.
Kentia Palms.

Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange,
58 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice Pansy Plants, Transplanted, ready September 1: 50c. per 100, \$4.00 per 1000. S. J. McMichael, 142 Larkins St., Findlay, O.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Cottage Gardens Co., Queens, N. Y.
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Ellwanger & Barry, Rochester, N. Y.
Peonies, Phloxes, Irises.

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PEONIES—Peony and phlox manuals, 25 cts. each. C. S. Harrison, York, Nebr.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POPPIES

Oriental poppies by 100 or 1000. C. S. Harrison's Select Nursery, York, Nebraska.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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F. E. Palmer, Brookline, Mass.
Rambler Roses.
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The E. G. Hill Co., Richmond, Ind.
Rose Rhea Reid.
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F. Hahman, Harrowgate Lane, Frankford, Phila.
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ROSES — Continued

Geo. A. Kuhl, Pekin, Ill.

Robt. Scott & Son, Sharon Hill, Pa.
Rose Mrs. Jardine.Ellwanger & Barry, Rochester, N. Y.
Hardy Roses American Grown.

Low-budded roses, No. 1, \$95.00; No. 1-1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

725 Maids, 200 Ivory, 75 Gates, very strong, in 4 and 3 1-2-in. Just right for benching, \$5.00 per 100, \$40.00 for the lot. Cash. J. W. Dunford, Clayton, Mo.

SALVIAS

2 1-2-in. Very strong, 2c. J. W. Dunford, Clayton, Mo.

SEEDST. J. Grey Co., 32 So. Market St., Boston, Mass.
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51 and 52 N. Market St., Boston, Mass.
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Garden Seeds.
For page see List of Advertisers.Beaulen, Woodhaven, L. I., N. Y.
Pansy Seed: Vegetable Seed.

I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREA

Spirea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.

SWEET PEASAnt. C. Zvolanek, Bound Brook, N. J.
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Celery Plants: Cabbages.
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Celery Plants: Cabbage Plants.
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Celery Plants.
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Grand Rapids lettuce plants, A1 stock, now ready to ship, 20c per 100, by mail; \$1.00 per 1000, by express. S. J. McMichael, 112 Larkins St., Findlay, O.

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The Chicago Lifter.

VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

VIOLETS.

5000 clumps California violets, ready now, finest stock in the west, 4 1-2 c. 250 or more at 4c. J. W. Dunford, Clayton, Mo.

WIREWORKReed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS**Boston**N. F. McCarthy & Co., 84 Hawley St., Boston.
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PittsburgJ. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

FOR SALE

Useful boiler for sale cheap. A No. 5 Lord's Horticultural boiler in good condition. Am replacing with a larger one and will sell at a bargain. R. E. Hannaford, Portsmouth, N. H.

A hot water ARCO Boiler capable of heating 2,300 square feet. Will be sold at half price. In perfect running order and guaranteed for one year. Reasons for selling—too small for our increasing business. Address S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.

SITUATIONS WANTED

SITUATION WANTED—On private place by sober, practical man as first assistant. European and American experience; good references. Address, O. W., 119 Main street, Irvington-on-Hudson, N. Y.

WANTED:—By middle of September, young man of refinement and good address as clerk in florist's store in suburb of Boston. Will be required to purchase stock and have general charge of store. First class references required. Address P. O. Box 3657, Boston, Mass.

FLORISTS' HAIL ASSOCIATION OF AMERICA.

Summary of the Secretary's Report for Year Ending August 1, 1907.

The 1,461 members of the Florists' Hail Association of America on August 1, 1907, insured glass as follows:

Single thick glass, 5,092,007; double thick glass, 15,058,024; extra one-half single thick glass, 754,993; extra one-half double thick glass, 1,840,066; extra whole single thick glass, 1,504,028; extra whole double thick glass, 4,246,279; amount paid for losses from Aug. 1, 1906, to Aug. 1, 1907, \$4,536.34, being equivalent to an insurance upon 27,197,867 square feet of glass.

The total receipts for the year ending August 1, 1907, as per treasurer's report, have been \$20,316.35.

The total expenditures as per treasurer's report have been \$11,169.90.

The cash balance at the close of the year is \$24,296.94, of which \$348.98 belongs to the Reserve fund, and \$23,947.96 to the Emergency fund. The Reserve fund now consists of \$17,400.00 securely invested and \$348.98 cash in hand, making a total of \$17,748.98.

Seventy-three losses, representing a breakage of 36,982 square feet of single thick glass and 27,331 square feet of double thick glass have been paid during the year.

One thousand and one hundred losses have been adjusted since the organization of the Association, involving a total expenditure of a little over \$105,000.

The 10 per cent. assessment on hazardous risks netted the treasury \$38.52.

It is with a great deal of satisfaction that your secretary is able to call attention to the fact that the reserve fund is rapidly approaching that point where it will be amply able to meet the largest possible individual loss. And the growing stability of the Association proves that the projectors of the scheme bided perhaps better and stronger than they realized a decade ago.

The only liabilities of the Association are ten losses which will aggregate about \$600 and of which no proofs have been filed.

The secretary again wishes to call attention to the fact that a duplicate of any loss will be furnished to any member of the Association upon application.

The false economy of tempting Providence was forcibly illustrated at Newburg, N. Y., about a month ago, where many thousand feet of unin-

GREENHOUSE To Rent

20,000 feet of glass, eight houses within three miles of State House, Boston. Can be hired cheap. Apply

N. F. MCCARTHY & CO.
84 Hawley Street
BOSTON

?

Is Your Name In The Above List? If Not, Why Not?

sured glass was reduced to scrap, by a violent hail storm.

The officers and directors especially refer the members to the report of the treasurer, believing that a careful perusal will secure an approval of their stewardship.

JOHN G. ESLEK, Secretary.

Treasurer's Report.

Total amount received for year ending Aug. 1, 1907, \$20,316.35; expenses for 1906 and 1907, \$2,481.87; losses from Aug. 1, 1906 to Aug. 1, 1907, \$4,527.16.

RECAPITULATION.

To balance on hand August, 1, 1906	\$15,150.49
Total receipts for year ending August 1, 1907	20,316.35
	\$35,466.84
By losses paid for year ending August 1, 1907	\$4,527.16
By expenses and investments ..	6,642.74
By balance on hand	24,296.94
	\$35,466.84

ALBERT M. HERR, Treasurer.

LENOX HORTICULTURAL SOCIETY.

The summer exhibition of annuals and perennials under the auspices of this society was held on August 15 and was very successful. Practically all the cottagers attended, and in the evening the hall was thronged. The exhibits of perennials were remarkable for the fine quality when the unfavorable season is taken into consideration. Never before at any of the society's shows were sweet peas displayed so abundantly and so strong. About two hundred vases were staged. In the class for 12 vases, 12 varieties, A. H. Wingett, superintendent for Chas. Lanier was first, M. T. Reynolds, superintendent for Mrs. E. R. Wharton, second, A. J. Loveless, superintendent for Mrs. John Sloane, third. In the class for 6 vases, 6 varieties, W. D. Curtis, M. K. Jesup and H. H. Pease received the awards. Among the winning collections were King Edward VII., Countess Spencer, Othello Dorothy Eckford, Helen Pierce, John Ingham, Navy Blue, Mrs. Kenyon, Nora Unwin, Miss Willmott, Lady Grisel Hamilton. Annuals were well shown by and first awards made to Mrs. E. R. Wharton, Miss Charlotte Barnes and Mrs. J. E. Alexandre, W. Jack, superintendent, in the various classes. In perennials Mrs. E. R. Wharton was first in 24 varieties and Miss Helen Parish first in 12 and 6 varieties. Particularly noticeable were the large vases of salpiglossis, delphinium, scabiosa and antirrhinum, and first awards in these were taken by J. E. Alexander, Chas. Lanier, W. D. Sloane, and Miss Charlotte Barnes, respectively. Phlox decussata was well displayed by Miss A. Kneeland, Mrs. George Westinghouse, E. J. Norman, superintendent, and gladioli by G. H. Morgan, Thos. Page, superintendent. Dahlias were not quite up to the Lenox standard, but interest centered about the fancy dahlia Chas. Lanier. The flowers grow to be six to seven inches in diameter. This will not be disseminated for two years.

In fruit and vegetables Chas. Lanier, R. W. Patterson, Thos. Proctor, superintendent, M. K. Jesup, J. J. Donahoe, superintendent, J. E. Alexander and

John E. Parsons, carried off the honors.

A diploma was awarded to Charles Lanier for blackberry Kittatiny; a cultural certificate to C. deHeredia for collection of vegetables, and a vote of thanks to Thomas Proctor for melon (indoor) weighing 10 pounds, 14 ounces. The judges were E. Jenkins and S. Carlquist.

ASSOCIATION OF AMERICAN CEMETERY SUPERINTENDENTS.

The annual convention of this Association opened on Tuesday morning in the Masonic Temple, Providence, R. I., at ten o'clock. President Cline introduced Mayor McCarthy, who welcomed the visitors to the city. President Cline responded briefly, after which S. J. Hare of Kansas City presented to the Association a gavel with head of highly polished Tennessee marble. President Cline then read his address, referring to the birth of the society twenty-one years ago, and the first meeting at Cincinnati, in April, 1887. Secretary Lawson made a provisional report, as his documents went astray in transit, stating that 21 joined the society at Detroit and 22 had entered since; 11 had been dropped for non-payment of dues, 6 resigned, 2 deaths. At 1.30 P. M. special cars were taken for the North Burial Ground, where an address was delivered by W. K. Reynolds, Chairman of the Commission. He stated that the first burial recorded there was in 1710; the first deed for a lot was passed in 1848. At 4.30 the company went to Field's Point, where a genuine Rhode Island clambake was served.

On Wednesday at 10 A. M. cars were taken for Swan Point Cemetery, where, after an address by President Alfred Stone, lunch was served and business taken up. In the evening a trip by steamer was made to Vanity Fair.

CLUB AND SOCIETY NOTES.

The village improvement society of Easthampton, Mass., held a flower show on August 16.

The Denison Civic Improvement League, Denison, Texas, will hold their flower show on November 6, 7, 8.

The Newport Horticultural Society will hold their fall show on September 17, 18, 19, in Masonic Hall.

The New York Florists' Club will hold its next meeting in the Murray Hill Lyceum, 160-164 E. Thirty-fourth street, between Third and Lexington avenues, New York City, on the night of September 9th.

The program for the chrysanthemum show to be held in Washington, D. C., at National Rifles Armory on November 12, 13 and 14 is now out and can be had from Secretary McCauley at 18th and Kearney Sts, N. E.

The preliminary schedule of the seventh annual exhibition of the New Haven County Horticultural Society is out, and can be had upon application to Walter Koella, 58 Bishop St., New Haven, Ct. November 6, 7, and 8 are the dates; Music Hall the place for the show.

The annual outing and clambake of the Utica Florists' Club was held on August 14 at Ilion, N. Y. The Albany

Florists' Club were their guests, and among those in attendance were Patrick Hyde, W. C. King, J. Haggarty, W. C. Gloeckner, F. A. Danker, J. C. McAllister and J. A. Howe, Jr.

The fifth annual fall show of the Huntington Horticultural and Agricultural Society, Huntington, L. I., will be held in September, and the committee request those who intend to donate money or prizes to give the matter their early attention. All communications or contributions should be addressed to J. R. McCulloch, chairman of committee, or A. H. Funnell, secretary.

The eighteenth annual banquet under the will of the late Henry Shaw to the gardeners, florists and nurserymen by the Missouri Botanical Garden, was given on August 14 at the Southern Hotel, St. Louis. Plates for 150 were laid and the tables were beautifully decorated. Dr. William Trelease acted as toastmaster and responses were made by President Dunlap of the Apple Growers' Congress, Park Commissioner P. C. Scanlan, W. C. Young, Walter Retzer, Prof. M. B. Waite, N. J. Coleman, L. A. Goodman, J. C. Vaughan. Among the members of the St. Louis Florist Club present were H. C. Irish, J. J. Beneke, C. A. Kuehn, J. F. Ammann, Carl Beyer, J. F. Filmore, W. C. Smith, A. J. Bentzen, John Connon, A. S. Halstead, G. H. Augermuller, J. W. Dumford.

NEWS NOTES.

The Foster Floral Co., are now in their new quarters at 909 Olive street, St. Louis.

The Alpha Flower Co., Des Moines, Ia., has leased the store at Seventh and Walnut streets.

The business of George F. Brehmer of Chillicothe, O., who died recently, is to be sold to close the estate.

T. D. Brown, Adams, Mass., is making extensive improvements in his greenhouses, putting in new boilers, etc.

Geo. W. Davis, of Detroit, Mich., has filed a petition in bankruptcy; liabilities \$2,013.87; assets, \$1,150, claimed as exempt.

F. P. Dilger, of Milwaukee, Wis., has announced the engagement of his daughter Charlotte to Charles Bondey of Kewaunee, Ill.

The three large greenhouses of the Lewis place in Longmeadow, Mass., recently purchased by Col. Phipps of the U. S. Army, retired, have been sold to J. W. Adams & Co., of Springfield, nurserymen, and taken down and removed to this place.

The greenhouse on the Ames estate, one of the landmarks of Chicopee, Mass., and said to have been the third greenhouse erected in the state, where the late Dexter Snow was for a long time gardener, is being taken down. When first put up there were twenty and thirty visitors from out of town some days, who would come to see what it was like. The ventilators were of cast-iron 2x3 ft. and weighed about 70 lbs. each.

The family have a fine Cycas revoluta, once the property of George Washington, and which has been in possession of the present owners for 97 years.

POT MAKERS FOR 140 YEARS

A. H. HEWES & CO. INC.

CAMBRIDGE, MASS.
FLORISTS EVERWARE

ANCHOR GREENHOUSE HOSE

is fully Guaranteed for florists, etc., use.

PLANT BED CLOTH is better and cheaper than glass.

MINERALIZED RUBBER CO., 18 Cliff St., NEW YORK

Boston Plate & Window Glass Co.

GREENHOUSE GLASS

German and American

261 to 287 A St.,

BOSTON

20-22 Canal St.

GREENHOUSES BUILDING AND
CONTEMPLATED.

New.

Putnam, Ct.—E. M. Arnold, house, 20x100.

Stockbridge, Mass.—C. S. Mellen, range of houses.

LaCrosse, Wis.—W. W. Cargill, conservatory.

Southington, Ct.—N. Bavier, violet house, 100 feet.

Lockhaven, Pa.—E. W. Carlson, range of houses.

Waterbury, Ct.—Saxe & Floto, house 40 x 150.

Willimantic, Ct.—W. A. Dawson, house 24x55.

Additions.

Fairhaven, Mass.—Peter Murray, additions.

Fall River, Mass.—Wm. Byard, house, 24x55.

Haverhill, Mass.—Leith & McDonald, 100 feet addition.

Spencer, Mass.—Chas. H. Green, carnation house, 30x100.

Cheshire, Ct.—Miss N. C. Smith, 40 feet addition.

Chicago, Ill.—Frank Oelschlein, range of houses.

Morrison, Ill.—Davis & Steiner, two cucumber houses, each 32x400.

Baltimore, Md.—Erdman & Ulrich, house 25x150.

Cheshire, Ct.—Clover Leaf Greenhouse, enlarging.

At the special meeting of the stockholders of the Evergreen Cemetery Co., East Douglas, R. I., held August 15 in the office of C. J. Bacheller, when a revision of the by-laws was made it was voted that each lot owner should become a stockholder, with the privilege of voting and holding office.

THEY'RE STICKING OUT

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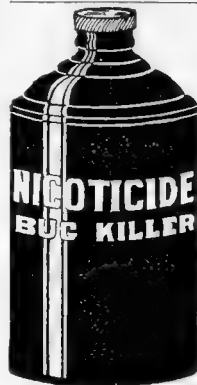
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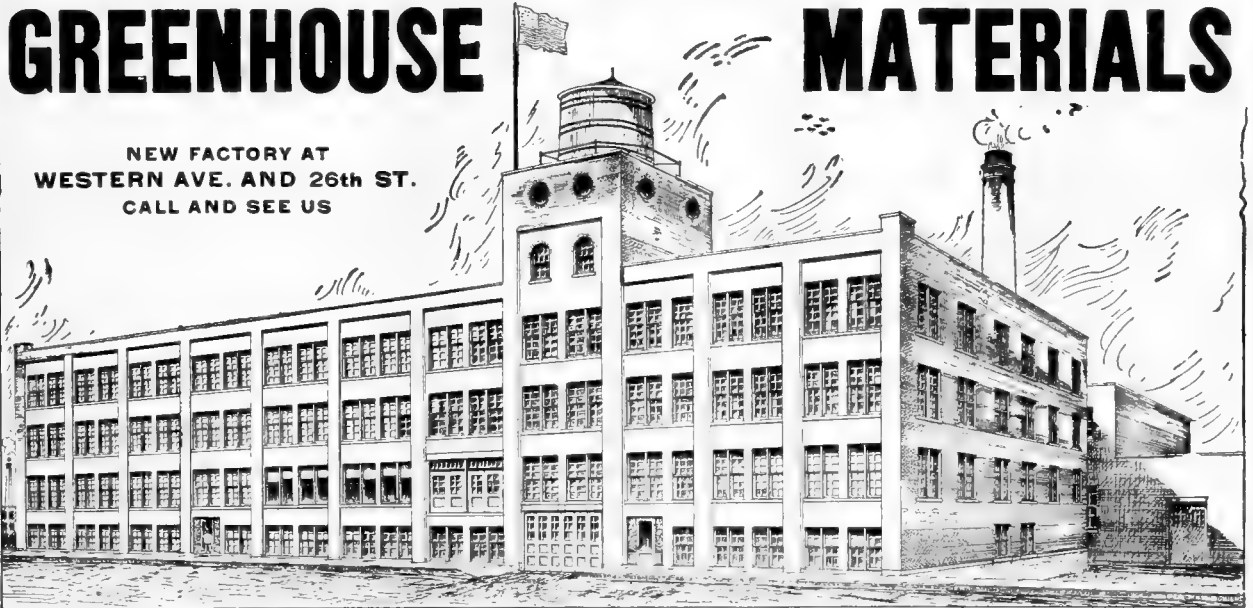
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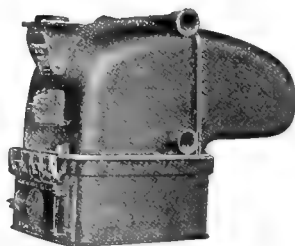
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HORTICULTURE

Vol VI.

AUGUST 31, 1907

No. 9



GEORGE W. MCCLURE

Vice-President Elect, Society of American Florists and Ornamental Horticulturists.

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Asparagus plumosus nanus seeds.....\$2.25
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British Horticulture

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The new H. T. rose, Queen of Spain, introduced last year by Messrs. Bide and Sons, of Surrey, is increasing in popularity. At the National Rose Society's show it was awarded a gold medal, first prize, and a special prize; at the Holland House show it gained a silver Banksian medal. Subsequently at Paris the rose secured a first-class certificate, and in addition awards have been obtained at several of the provincial shows. It is a seedling from Antoine Rivoire and a hybrid perpetual. Messrs. Bide have two more seedling roses which are to be put in commerce. One is a pink bloom, and the other pink and lemon at the base.

A NEW TOMATO

W. P. Vaudin, a well known Guernsey grower, has brought out a new tomato named Vaudin's Secret. This is to supplement the Improved Lawrenson introduced by Mr. Vaudin some time ago. The latter is an early variety, but the Secret is intended for late crops, to follow the first hothouse crop, or to be a cold-house growth. The foliage has a distinct Hipper strain in it, and the few side growths made also follow the habit of that variety. The Hipper, however, is long-jointed, but this is stout, and the first truss appears about a foot from the soil. The trusses are very heavy, 14 to 15 fruits on each, and the fruits are also very heavy for their size, and yield five cwt. and over per perch on the first crop. So far the crop has been immune from disease. The new comer is likely to prove a valuable acquisition to the commercial grower.

THE FRUIT CROP

The fickle weather conditions have again given British fruit growers cause for great anxiety, and the season is likely to be very disappointing. The reports contributed by correspondents to the "Gardeners' Chronicle" show that the apple crop over all the country is of less value than last year. Pears are variable, being less scarce in England than they were last year but not so in Scotland. Out of 44 returns from Scotland, 32 report the crop as under the average, and in only one instance is it reported above the average. In Wales nine out of 21 correspondents, and in Ireland 11 out of the same number state the crop to be under the average. Plums are much more abundant than usual in most parts of England, and in Scotland, but the crop in Wales and Ireland is not so plentiful. Cherries are a good crop in most parts of the country, being much above the average, and the same remark applies with even greater force to peaches and apricots. The soft fruits, such as gooseberries, currants and raspberries appear less liable to miss cropping than apples, plums or pears; for some years past, as a rule, these crops have been generally good. This year they are certainly above the average.

for in England, out of 187 returns, all but four report average crops or crops above the average. The returns in respect of strawberries appear fairly satisfactory, but it is pointed out that the crop generally was not equal to the average, although it lasted for a longer period than usual. Owing to the lack of sunshine, the earlier fruits ripened very slowly, and many decayed during the process. At the best, the fruits were of inferior flavor.

W. H. Adsett.

The Beet Blight

The growing of sugar beets and their manufacture into sugar is an industry slightly aside from general horticulture. But there is a disorder in the growing of the beets which will be of interest to those who follow the various ills to which plants are heir. This is the beet blight. At this stage only a preliminary survey of the field is possible—there is so much to do and so little has been accomplished in several years of investigation.

The blight is an example of a physiological disorder. That is, it does not have a fungus, insect or bacterial origin but the cause is to be sought in a suspension of the working functions of the plant's organs. What brings this about is a question which is receiving much attention from those interested in the beet industry.

The main characteristics of the trouble are a dwarfing and stunting of the tops which take on a rosetted appearance and turn yellow. The roots cease to grow steadily and throw out enormous numbers of side roots. The ducts become discolored and blackened, an analysis showing the presence of a large amount of silica.

For several years the blight has caused considerable loss and while it doesn't occur in all localities, wherever present it means an enormous loss to the factory, for the machinery is run but a couple of months out of the year and for this time requires a steady supply of healthy roots.

After a certain stage is reached, blighting stops, so the whole question may simply be to get the plants to this point before the conditions favorable to the blight set in.

Beet blight is a very interesting example of a physiological trouble and is apparently in the same class with the aster yellows, peach yellows, little peach, peach rosette, tomato dropsey, cucumber stem curl, bronzing of rose leaves, calico disease of tobacco, and the like.

At some latter date this matter will be taken up more fully, but this short sketch will serve to introduce a rather new and decidedly absorbing plant trouble generally unknown.

R. J. Adams.

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mission which the summer dullness made possible for him. Those who have deferred putting houses in order for the winter's strain have no time to spare now. Already the chill and dampness of low morning temperatures warn of the danger of unpreparedness for resisting the evils that follow sudden changes of temperature. Don't defer anything now. Get busy.

A remarkable
convention

The uppermost subject of interest wherever the craft congregates this week is the convention of the Society of American Florists and Ornamental

Horticulturists which made Philadelphia the Mecca of the American horticultural world last week. When we stop to consider that out of a total of 17 ex-presidents now living 13 were present on this occasion and that of the remaining four, three were kept away only by sickness it is apparent that all the enthusiastic loyalty which the Society has enjoyed in the past is still to be counted upon as an element of conservative strength to supplement the vigorous activity of the youthful forces which are now forging to the front in the work of the organization.

A unifying
force

It is a very hopeful augury to see these young men, many of them sons of honored pioneers in the service of the national Society, gradually coming in, not

by sensational or revolutionary methods but by a quiet process of assimilation and taking their places alongside of the old-timers ready to assume their share of the burdens and responsibilities of the serious work of the Society. Attracted at first, in many instances, by the social pastimes upon which the Society has wisely smiled its approval, they have absorbed the grand inspiration with which the convention atmosphere is always charged and when their time comes we find them ready for the harness. In no other organization in the country are the special interests and peculiar needs of the older and the younger elements more skillfully interwoven than in the S. A. F.

A discredited
critic

In the closing paragraph of the address of the President of the Society of American Florists at Philadelphia, under the heading of "Business first,

pleasure afterwards," occurred the following words: "but with all their vociferation they (the bowlers) are among the best promoters in the Society's service." Our New York contemporary, exercising its prerogative as critic, makes the following misquotation editorially as the basis of an attack upon the cordial attitude of the President towards the athletic contingent in the Society's membership: "the bowlers are the best promoters in the Society's service." (The italics are ours.) No one has had better opportunity to estimate the ultimate value to the Society of the youthful element which has been attracted to the conventions in part by the sporting rivalries there engendered, than the late secretary who this year fills the position of presiding officer, yet there may be sincere differences of opinion on this and our contemporary has a perfect right to entertain such, but when, as in the present instance, whatever force its argument may have derives its strength from a misquotation, there can be but one opinion of the tactics employed in the effort to demonstrate that the President's remark was "a nullifying bad break."

Exit summer

September is at the door. The summer has passed and the cool breath of autumn comes to us in invigorating whiffs stirring us to new activity. Home coming is in order. From abroad, from mountain, farm and seaside the march has begun and again the worker takes up his task, refreshed by the brief inter-

WHOM WAS HE CHASING?

The sorrows of Satan are many. We have sympathized with Satan a good many times. Poor fellow he has his ups and downs as well as us poor mortals. He had several manifestations in the postscript meetings of the recent Philadelphia gathering. He appeared in various shapes; the gray-mouthed wood-wolf; the tawny lion; the whiskered tiger; the yapping hyena; the crawling serpent; the sleek and sly bed-bug that only comes out in the dark; and in the honest but foolish human; the latter the most efficient of all the manifestations, as is acknowledged in the old saying, "Lord preserve us from our fool friends." But, notwithstanding all this array of his powers we have to report that he had to sidestep and consequently we extend our heartfelt condolences.

This little homily may be fitly concluded by a quotation from Frank L. Stanton's latest:

Satan come a-chasin' me lively thro' the night;
Run me from de shadders ter de breakin' er de light;
An' I can't climb ter heaven an' de yuther place in sight,
An' I don't know what's a comin' on ter-morrer!

He run me—oh, he run me des as fur ez he kin see;
He swim de ragin river and he climb de burning tree;
An' I wonder what he wantin' wid a sinner po' as me?
An' I don't know what's a comin' on ter-morrer!

He shoo' got time—I tell you! ter be runnin roun' lak dat!
Wish't de harricane would head 'im or de earquake th'ow 'im flat!
De sinners sho'll be burnin' on de griddles whar dez at—
An' I don't know what's a comin on ter-morrer!

The guilty is the only one Satan can scare and he gets very mad when he finds himself chasing the wrong man, and wonders where the devil he is at and where the devil he is going sometimes. Hence our sympathies!

G. C. WATSON.

THE PYRAMIDAL GINKGO.

Editor of HORTICULTURE:

Dear Sir:—What Mr. Lonsdale says about the pyramidal form of ginkgo in Philadelphia is very interesting and the variety should be worth while propagating by grafting in the winter. From seedlings varying forms occur once in a while especially in coniferae, where they bear fruit. I do not think that these would reproduce themselves from seed, yet it is not impossible.

All the dioecious trees are more susceptible to pollination than the hermaphrodites and it is not surprising that the tree in Laurel Hill Cemetery bears fruit if there is a male tree even a few miles away. The same thing happens with date palms.

A. HANS.

Stamford, Conn.

There are several specimens of the pyramidal Ginkgo biloba on the grounds of the Department of Agriculture, Washington, D. C. The late F. L. Temple, while connected with a nursery at Bedford, Mass., propagated and introduced trees of this pyramidal form. I presume some of these at least are sports from the normal form.

E. Y. TEAS.

PERSONAL.

A. Leuthy, of Roslindale, Mass., has returned from his European trip.

J. Kirby, late of Chicago, has taken charge of the Redondo Carnation Gardens, Los Angeles, Cal.

Carl Lorenzen of New Britain, Ct., returned on the Deutschland, August 22, from a two months' trip to Germany.

Thomas F. Galvin, Jr., and Miss Frances Delaney of Cincinnati, Ohio, were married on August 23 in Brookline, Mass.

Peter Olsen, for the past five years with the Chicago Carnation Co. and Miss Emilie Lepper of Joliet, Ill., were married on August 17.

C. C. Shaw of Milford, president of the New Hampshire Horticultural Association, with Mrs. Shaw, observed their sixty-first wedding anniversary on August 27.

Supt. J. G. Morley, Los Angeles, Cal., attended the convention of park superintendents at Toronto. He and Morris Goldenson of Los Angeles were present at the S. A. F. convention in Philadelphia, with the distinction of having traveled the longest distance of those in attendance.

Visitors in New York this week: Ed. Sanders, Chicago, Mr. Trinz of Lubner & Trinz, Chicago, Harry Papworth, New Orleans, P. Zuger, Hartford, Conn., George Thompson, Lenox, Mass., A. M. Rennie, Providence, R. I., J. K. M. L. Farquhar, Boston, Messrs. Burroughs and Williams, St. Anne de Bellevue, P. Q., Mr. Ferguson of Depeu & Ferguson, Montreal, Superintendent Roy of public parks of Montreal, H. G. Berning and Mrs. Berning, St. Louis, O. G. Koenig and Mrs. Koenig, St. Louis.

Well Liked.

St. Albans, Vt., July 15, 1907.

Your paper is well liked. Find enclosed \$1.00.

HENRY BRYANT.

Indispensable.

Doylestown, O., July 15, 1907.

Gentlemen—Find enclosed money order for \$1.00 for HORTICULTURE another year. We feel we cannot successfully manage our greenhouse without it, and at present we are building an 80 ft. addition.

Yours Respectfully,
(Signed) C. A. MUSSER,
Wayne Co., Box 307.

Would Hate to do Without.

West Newton, Mass., July 9, 1907.
Hort. Pub. Co., Boston, Mass.

Dear Sirs—Enclosed you will find check for \$1.00 to pay subscription on paper "HORTICULTURE" which I would hate to do without.

Very truly yours,
(Signed) H. M. SHURBERT,
1600 Washington St.

WHOLESOME CHESTNUTS.

From now on the work of completing the planting of carnations will take up a good deal of attention and time. It may save much annoyance and some labor and money if benches are made secure and put in good shape before planting on them. Good soil is essential to any degree of success with carnations; good loam about four parts and one part of cow manure properly assimilated or mixed seems to suit them; the soil should not be packed firmly in the benches. When planting place the plants not any deeper than they were when growing out doors. Allow the roots freedom for extension, spread them out evenly, give them a good watering immediately after they are all planted. Do not shade the glass any more or for any longer time than will be absolutely necessary.

Boston ferns are planted out in benches and they make good growth there. There is no doubt about that but it is not good policy to leave plants intended finally for pots, there almost up to the time of selling. One might just as reasonably expect a tree transplanted out of a dense forest to make a good lawn specimen immediately as expect plants roaming at will in a bench to make shapely pot plants in a few days after being potted.

Now is the time to see that everything about the place is put into first class shape for the winter. All broken and cracked glass should be replaced; everything that will be benefited by a coat of paint should have that coat immediately applied, first taking care that as much of the dirt adhering to the wood as is possible to remove be removed; slats and pots should be put in convenient places all sizes in separate piles; flats needing but slight repairs to make them serviceable for another filling should receive attention and all flats past redemption consigned to the pile of fire wood without more ado.

Soil is one of the most important considerations in the whole volume of horticultural endeavor; for that reason the procuring and preparing of soil should have a great deal of thought and attention. While a cover for soil in the heap may be advantageous in some ways there is no question that the action of frost is beneficial as is also a good wetting provided the soil is not needed for immediate use which would necessitate its being used in a wet state, something, of course, detrimental to the success of the crop grown in such soil. All that is necessary in the way of covering for a compost heap is enough to cover the top.

GOOD NEWS.

Chatham, N. J., Aug. 27, 1907.

Editor of Horticulture:

Dear Sir,—The United States Express Co. has reduced its rate on flowers, to take effect today. The reduced rate in vogue for two months at Chatham is now extended to Madison, and, I understand, to all their other shipping points.

This reduction of expense in the express items of florists is entirely due to the good work of the Society of American Florists. We all congratulate President Stewart upon the successful outcome of his efforts in Washington. Respectfully yours,
FRANK L. MOORE.

THE CONVENTION PROCEEDINGS CONCLUDED

The discussion on Thursday forenoon following the excellent papers by E. V. Hallock and W. B. Du Rie, on the subject of horticultural education in the public schools, brought out a general interchange of views upon the necessity of making the study compulsory, the importance of employing efficient teachers and the value of school gardens and other practical means of imparting a knowledge of horticulture among children. The advances made along these lines, in recent years, in New York, Massachusetts and other States were detailed, and congratulations indulged in upon the outlook.

Prof. L. C. Corbett, of the Plant Industry Bureau of the Department of Agriculture at Washington, D. C., explained that there are now 30,000 school gardens in actual operation in the United States. He said the movement had made rapid strides in the South, where the young colored people did not aspire to become clerks and stenographers, but found a ready means of advancement in a horticultural and agricultural education. The State of Mississippi is foremost in making the study compulsory in the public schools. New York, the speaker said, has taken the lead in this branch of education, and Massachusetts and Maryland ranked next in the list in their demands upon Washington for assistance. Patrick O'Mara, of New York, spoke of portions of the "rough-house" districts in that city, which had been revolutionized in morals and social character by the influence of school gardens.

The convention requested the committee on the subject to continue their efforts for favorable legislation, and made arrangements for furnishing all societies, journals and boards of education interested in it with copies of the papers just read and the discussion thereon.

Thursday Evening.

At the session on Thursday evening a paper by Mr. Theo. Wirth on "Horticultural Education in Agricultural Schools" was read and discussed. Several speakers deprecated the lack of practical education by college graduates; and W. N. Rudd, of Chicago, spoke of what had recently been accomplished in Illinois in the interest of floriculture, where a strenuous effort had resulted in securing a State appropriation of \$15,000 for the exclusive benefit of growers under glass. The establishment at the State University of a school for practical training in floriculture was also probable. W. W. Castle, of Boston, said that in the Weymouth Agricultural School, in the Cape Cod district of Massachusetts, prizes are given to children for the best specimens of plants and vegetables cultivated by themselves.

J. K. M. L. Farquhar, of Boston, read a paper on "Horticultural Education by Horticultural Societies and Clubs, including a review of the work of the Boston landscape class."

The outlook for the National Flower Show in 1908 was discussed at some length. Chairman Kasting, of the committee on the subject, reported that the subscriptions to the guaran-

tee fund amounted to \$10,490; that the committee contemplated holding the show in November, 1908, and that arrangements had been made for the printing of the first premium list by the trade papers. He anticipated that the committee, at its next meeting, would have to make a first call upon the guarantors for money. He added that it was his own belief that they would eventually be able to pay all the money back. In reply to inquiries he explained that there was no apprehension that the Presidential election would interfere with the success of the undertaking, as the show would not be held until the week following the election.

The discussion turned mainly upon whether the spring of 1909 or the fall of 1908 would be the better time to insure the success of the exhibition, financially and otherwise. Robert Craig favored the spring as a time when plants and flowers would be in better shape, more numerous and of greater variety. J. C. Vaughan preferred the fall because the people of Chicago were accustomed to such exhibitions at that season. He explained that, as it would be a national and not a local affair, the responsibility for its success would devolve upon the florists of the East and West and not upon those of Chicago. Irvin C. Berterman suggested that as the committee in charge of the matter had general supervision of the details they should be allowed to fix the date. On motion of Mr. P. O'Mara the whole matter was referred to the existing Committee of Fifty (which includes the Executive Board) with full power to act.

The Ladies' Outing at Willow Grove.

Three hundred ladies participated in an outing to Willow Grove, on Thursday afternoon, under the auspices of the local club. The route was by trolley for fifteen miles through a beautiful rural section adorned with palatial residences and large private estates, including those of the millionaire manufacturer John B. Stetson and the merchant prince John Wanamaker.

Arriving at the park the visitors were entertained in the music pavilion, where they listened to Sousa's celebrated military band. Lunch was served in the Lakeside Cafe. The remainder of the afternoon was spent in viewing the attractions of the Park and listening to the music.

Friday Morning.

The convention met on Friday morning in the hall of the local club, at Horticultural Hall, and resumed business promptly at nine o'clock. E. V. Hallock submitted for use by the committee on the subject a draft of a statute for the establishment of school gardens, to be submitted to State Legislatures. Upon his motion the membership of the committee was increased by adding thereto Messrs. Patrick O'Mara and F. R. Pierson. A report from the Committee on Publicity, recommending individual work in disseminating information, prepared by S. S. Skidelsky was read and filed, and the Executive Board was authorized to expend this year \$200, in co-operation with the Council of Horticulture, in disseminating through three

thousand newspapers information about flowers and plants.

The Committee on Plant Registration and Nomenclature reported recommendations which the Executive Board were instructed to carry out.

Announcement was made of the presentation to the Society, by ex-President Dean of Freeport, N. Y., of two bound volumes containing the entire records of the conventions of the Society.

The Outing at Belmont Mansion.

A glorious day's outing at Belmont, in Fairmount Park, as guests of the Florists' Club of Philadelphia, was attended by about 1000 members and their ladies. The party was conveyed to the park in electric busses, some of which stopped on the way to inspect the grounds at Girard College in charge of Superintendent Edwin Lonsdale and Horticultural Hall. The program of the day included diversions of all kinds from automobile rides and dancing to field sports. There was a base ball game between a nine from the local club and a picked team from other clubs, the latter winning by a big score. The Philadelphia team appeared in natty uniforms but this availed them nothing against the scientific work of pitcher C. J. Graham of Cleveland.

A threatening rain storm was fortunately side-tracked until every one had taken refuge under the mammoth tents in which the dinner was served. The dining tables were tastily decorated with ferns, bouquets of gladioli, late roses, phlox and golden glow. After the dinner the bowling and shooting prizes were presented to the successful competitors in the contests of the previous day. Ex-President O'Mara made the presentations and accompanied each with a humorous and pertinent little speech. President Stewart then briefly expressed the gratitude of the visitors for the hospitalities and many kindnesses they had received. He said the Philadelphia brethren had abundantly fulfilled their promise to make this the banner convention and called upon the Committee on Final Resolutions for their report. The report was read by Mr. Farquhar and embraced resolutions of thanks to the local club and its officers, the Mayor and ladies of Philadelphia, Mr. Wm. F. Dreer and others for courtesies and co-operation in making the convention a success, and was adopted amid tumultuous applause.

Friday Evening.

The convention held its final session on Friday evening. A memorial in honor of the late Thomas Meehan, of Philadelphia, was adopted. A communication from W. N. Rudd, complaining that because of the lack of uniformity of moulds, "standard" pots do not nest and breakage results. A committee of three was appointed, consisting of Robert Craig of Philadelphia, F. E. Palmer, Brookline, Mass., and John Birnie, W. Hoboken, N. J., to investigate the pot question and make report next year.

In accordance with the recommendation of the Executive Board an appropriation to cover expenses in connection with the late suit against the

United States Express Co. was voted. A prolonged discussion took place as to the best method of book-keeping and accounting in the office of secretary and treasurer.

President Stewart thanked the members for their attention and earnestness in the work that had been accomplished in the convention and a vote of thanks to the president for his efficiency in the chair was in turn accorded. Adjournment was then voted and thus amid the utmost good nature and cordiality passed into history the great Convention of 1907.

THE S. A. F. TRADE EXHIBITION.

Our account of this exhibition and list of exhibitors as given in last week's issue was unavoidably hurried and somewhat incomplete. The following should be added:

Fernery Greenhouses, Govanstown, Md.—A pure white semi-double sport, from Queen Alexandria daisy.

Fertilizer Products Co., Jersey City, N. J.—Plant-Blood, claimed to be an ideal food and tonic for house plants and the garden.

C. S. Ford, Philadelphia.—Florists' immortelle letters, designs and florists' novelties.

H. D. Gara Co., Philadelphia.—Insecticides: Alco-Naptha.

Keystone Sheet Metal Co., Ambridge, Pa.—Patent metal hot-bed sash.

F. L. Moore, Chatham, N. J.—Sunnywoods Hose.

Morehead Mfg. Co., Detroit, Mich.—Morehead automatic steam tank, meter and return traps.

Godfrey Aschmann, Philadelphia.—Plants. Also a very rare old botanical work in the German language.

Crowl Fern Co., Millington, Mass.—Hardy cut ferns, laurel loose and in roping.

E. H. Cushman, Sylvania, O.—Blooms of Lillium philippense.

A. D. Carpenter & Co., Cohoes, N. Y.—Plant tie

Diller, Caskey & Keen, Philadelphia.—Greenhouse gutters and appliances.

Advance Co., Richmond, Ind.—Ventilating apparatus.

G. B. Hart, Rochester, N. Y.—Pot handle.

H. J. Smith, Hinsdale, Mass.—Hardy ferns, Christmas trees, greens.

Altimo Culture Co., Canfield, O.—Asters.

Carolina Glass Co., Columbia, S. C.—Baskets.

Foley Mfg. Co., Chicago.—Greenhouse appliances.

Andrew Wilson, Summit, N. J.—Plant oil.

Warren Matthews, Dayton, O.—Coleus, Dayton Gem.

CONVENTION NOTES.

Messages of condolence were ordered by a unanimous vote to be sent to ex-Presidents Wm. Scott and M. H. Norton, both of whom had been prevented from attending the convention, the former by illness and the latter by an injury.

The vote for president was very close—163 to 147—and the friends of both candidates were kept on the anxious seat until pretty near the end of the counting.

Widespread regret was expressed at the enforced absence of Mrs. Stewart, who has but recently recovered from a severe illness.

The Ladies' Auxiliary has reason to be proud of its first season's work, the list of members now reaching 109.

A resolution of sympathy with Joseph Heacock and family in their recent severe affliction was adopted on Thursday evening by a rising vote.

For the first time in its history, the S. A. F. consumed four days before closing its business sessions. Despite the many entertainments an unusual amount of valuable work was put through. The Executive Board also made a record by holding two sessions during the convention.

The roof-garden reception at H. Bayersdorfer & Co.'s establishment on Thursday was the most elaborate private entertainment of its kind ever provided for Convention visitors. There was a sumptuous luncheon and music, and Messrs. Bayersdorfer and Berkowitz, with their ladies and a host of employees, spared no effort to make their many visitors happy. The opportunity to inspect the goods displayed on the various floors was availed of by the visitors, and was not the least of the instructive and enjoyable features of the occasion. Two couples were in service all day carrying the visitors to and from the Convention hall.

From all accounts the trip from New York to Philadelphia reflected great credit upon Messrs. Schultz, Nugent and Rickards, the committee entrusted with the duty of providing for the material satisfying of the 130 healthy appetites under their care. The old Scotch definition of perfection in this respect "A' fu' and nane left" was well exemplified in this instance, for everybody had enough, and the commissary was bare when Philadelphia was reached.

CONVENTION GINGER JAR.

What did you think of the convention? That is the universal salutation today—Monday. Personally, I think it was O. K. I enjoyed every minute of it from Monday morning to Saturday night, and I only saw one thousandth part—and kept pretty busy at that!

I have taken a few samples of other's views today and append one or two:

Leo Niessen—It was great—especially the Dreer trip. I never saw a bigger or more congenial gathering. But the service and merchandise at Belmont was not so good as might have been. I can't say anything about the tag, but I guess the bill will come in all right. (Sententious as ever.)

J. Herbert Inman—Fine convention. The feed at Belmont was great. Everything of the finest and served to the minute. And the business I did exceeded my most sanguine expectations. (Take your choice between these two.)

William J. Baker: It was no good. I had no time to attend to anything for shaking hands with people. Who do they think I am—President Roosevelt?

Frank H. Traendly—It's not this one that's worrying me now. It's the next! Of course I'm proud but it's a big responsibility.

Captain Lynch—On ethical and aesthetical grounds I would consider last week's gathering a triumph of twentieth

century civilization and an honor to the most august body of men ever assembled together for instruction and amusement since the beginning of time. Gastronomically and esoterically it was beyond all praise. In other words, I think—"it was all to the good!"

J. K. M. L. Farquhar—I think you have a great city here, and great opportunities. We Boston people, proud as we are, see much to admire and approve in your parks and public institutions and in the general spirit of progressiveness everywhere. I go home chastened, yet inspired and exhilarated! That 'bus megaphone was a fine feature. You remember when the crowd passed the 38th street market where the biggest vegetables in the world were sold? Where "the vegetables were so large that three policemen had been known to sleep on one beat?" Yes! Well I have found those beets were all grown from Farquhar's seeds!

G. C. WATSON.

SPOKANE ASTER FAIR.

The Spokane Floral Association, of which Mrs. John Gilson is president, announces that silver medals will be awarded for the best displays at the twelfth annual aster show in connection with the Spokane Interstate Fair in Spokane, Wash., Sept. 23 to Oct. 5. It is expected to have exhibits from Washington, Idaho, Oregon, Montana and British Columbia, and these will be shown in a tent 40 by 80 feet, in connection with other varieties of blooms. The central idea is not the awarding of prizes, but a desire to show the visitors from the Inland Empire of the Pacific Northwest, and from other places, what may be done in the culture of flowers in the Spokane country.

Systematic work is being done by the ladies of the association to prevail on those who have fine gardens to place their flowers on exhibition, either in competition for the prizes or otherwise. Besides the regular prizes, blue ribbons will be awarded in the various classes by the Interstate Fair Association.

A new feature of the flower show will be the exhibits from the parks in Spokane, all of which have promised to send displays. The medal in this department will be given by the floral association. Liberty park, Coeur d'Alene park, as well as Corbin and Manito parks, will be represented.

Another feature of the fair that is being given especial attention this year is the display of potted plants. All potted flowering plants placed on exhibit will remain the property of the exhibitor and the association will be responsible for them.

It is also planned to have exhibits by the children of Spokane and the district. All plants exhibited in this department must have been cared for by the exhibitor, the object being to encourage the boys and girls in flower culture.

In the earlier days of Spokane the floral association did much in the way of providing seeds, even doing work in the city parks.

AUGUST WOLF.

Spokane, Wash.

During Recess

*"Hang Sorrow; care will kill a cat
And therefore let's be merry."*

CONVENTION SPORTING EVENTS.

The Bowling Contest.

Seven teams were entered in the bowling contest which took place at the Terminal alleys. Detroit, New York, Cleveland, Chicago, Washington, Baltimore and Philadelphia were the participants. Philadelphia had a walk over—nearly 200 pins ahead of the next highest. The scores follow:

Totals, Three Games

PHILADELPHIA		BALTIMORE	
Robertson	525	Richmond	514
Yates	493	Boone	413
Dodds	461	Perry	429
Polites	509	Lehr	394
Connor	465	Seybold	520

Total2453 Total2260

WASHINGTON		CHICAGO	
Cooke	480	Hauswirth	425
Shaffer	458	Bergman	398
Simmonds	468	Olson	504
McLennan	398	Winterson	424
Ernst	369	Asmus	400

Total2173 Total2151

CLEVELAND		NEW YORK	
Hart	443	O'Mara	387
Pentecost	360	Manda	392
Kelley	368	Kessler	407
Schmidt	420	Theilman	424
Graham	520	Duckham	470

Total2111 Total2080

DETROIT	
Brown	360
Rahley	350
Stahelin	297
Pochelin	320
Helmer	426

Total1753

Team Prizes.

Whilldin Cup, 1st prize, Philadelphia, 2453; Michell Trophy, 2nd prize, Baltimore, 2260; Silver Cup, 3rd prize, Washington, 2173; Kasting Cup, High Single Game, Philadelphia, 857; Philadelphia Cup, High Total Score (Philadelphia excluded), Baltimore, 2260.

High Individual Game in Team Contest, Wm. Duckham, 198, New York, Silver Cup. High total in three games, Wm. Robertson, 525, Philadelphia, Silver Cup.

Greatest number of Strikes, Wm. Robertson, 15, Philadelphia, Silver Cup.

Greatest number of Spares, M. Richmond, 19, Baltimore, Silver Cup.

Men's Individual.

(Two Games.)

Prize.	
1st, Geo. Goebel, Phila., Silver Cup....	346
2nd, W. C. Smith, Phila., Clock.....	333
3rd, Wm. Graham, Phila., Flask.....	329
4th, E. C. Dungan, Phila., Suit Case....	318
5th, J. Berry, Washington, Fountain Pen.....	212

Wm. Falck, Phila.,	300
J. Feurich, New York,	298
G. McClure, Buffalo,	246
Wm. Lockport, Buffalo,	295
A. Y. Hanna, Phila.,	295
A. Rasmussen, New Albany, Ind.,	241
C. Kuehn, St. Louis, Mo.,	240
J. J. Beneke, St. Louis, Mo.,	231
John Kuhn, Phila.,	277
R. Scott, Buffalo, N. Y.,	271
F. Adelberger, Phila.,	231
C. Sandilford, Buffalo, N. Y.,	233
W. L. Rock, Kansas City, Mo.,	259
D. J. Demas, Pittsburgh, Pa.,	256
A. B. Burton, Phila., Pa.,	253
W. Wheeler, Boston, Mass.,	250
Wm. Rehder, Wilmington, N. C.,	245
John Burton, Phila.,	236
D. Finlayson, Boston, Mass.,	226
Chas. Vick, Rochester, N. Y.,	225
G. Kuhl, Pekin, Ill.,	224
H. Bauer, Baltimore, Md.,	219

S. Batchelor, Phila.,	217
W. F. Kasting, Buffalo, N. Y.,	216
A. B. Cartledge, Phila.,	216
W. Loew, Pittsburgh, Pa.,	211
A. Henshaw, New York, N. Y.,	208
E. W. Holt, New York, N. Y.,	200
A. G. Salter, Rochester, N. Y.,	193
A. Pierce, Waltham, Mass.,	191
J. Schulz, Louisville, Ky.,	179
C. Ashley, Allentown, Pa.,	174
C. Kahler, Phila.,	174
H. Hornecker, New York, N. Y.,	154
J. Hauck, New York, N. Y.,	126

Individual Championship of S. A. F.

(Two Games.)

Diamond Medal Presented by Brunswick-Balke-Collender Co.	
C. J. Graham, Cleveland.....	369
Wm. Robertson, Phila.,	361
P. Olsen, Chicago.....	354
G. Barry, Washington.....	332
Ed. C. Dungan, Phila.,	330
W. C. Smith, Phila.,	319
Wm. Graham, Phila.,	309
M. Richmond, Baltimore.....	309
Wm. Duckham, New York.....	304
Geo. Cooke, Washington.....	289

LADIES' AUXILIARY BOWLING.

The ladies had almost as many teams as the men this year—entering from Baltimore, New York, St. Louis, Washington, Philadelphia and Chicago—six teams. They were given the honor of a separate building to themselves—the Olympic. The Chicago team won out, having an all star aggregation—three of them with over two hundred, while Philadelphia the next highest had only one over two hundred in the two games. The scores follow.

Totals, Two Games

CHICAGO		PHILADELPHIA	
Mrs. Asmus.....	211	Miss E. Graham.....	208
Mrs. Kreitling.....	199	Mrs. Harris.....	149
Mrs. McKellar.....	266	Mrs. Robertson.....	148
Mrs. Winterson.....	175	Miss M. Graham.....	171
Mrs. Hauswirth.....	211	Mrs. Sibson.....	176

Total1062 Total852

WASHINGTON		NEW YORK	
Miss Cooke.....	172	Mrs. Traendly.....	168
Mrs. Cooke.....	168	Mrs. Donaldson.....	135
Mrs. Simmonds.....	166	Mrs. Reimels.....	181
Miss Freeman.....	79	Mrs. Theilman.....	168
Miss Shaffer.....	238	Mrs. Vesey.....	134

Total823 Total786

ST. LOUIS		BALTIMORE	
Mrs. Beneke.....	131	Mrs. Seybold.....	80
Mrs. Meinhardt.....	187	Mrs. Bauer.....	90
Mrs. Weber.....	58	Mrs. Richmond.....	122
Mrs. Koenig.....	83	Mrs. Lutz.....	132
Miss T. Meinhardt.....	160	Miss Boone.....	155

Total619 Total579

1st Prize, Silver Cup, Chicago.....	1062
2nd " " " " Phila.....	852

Individual High.

(Two Games.)

Mrs. McKellar, Chicago, Silver Cup.....	266
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Individual High Game.

Mrs. McKellar, Chicago, Silver Cup.....	151
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Ladies' Individual Prizes.

Prize.	
1st, Silver Compote, Mrs. McKellar, Chicago.....	263
2nd, Traveling Clock, Mrs. Hauswirth, Chicago.....	209
3rd, Silver Pocketbook, Mrs. Theilman, New York.....	208
4th, Bon Bon Dish, Miss Shaffer, Washington.....	207
5th, Silver Belt Buckle, Mrs. Kreitling, Chicago.....	206
6th, Cut Glass Water Bottle, Mrs. Asmus, Chicago.....	199
7th, Cologne Bottle, Mrs. Meinhardt, St. Louis.....	198
8th, Cut Glass Bowl, Miss Meinhardt, St. Louis.....	196
9th, Cut Glass Olive Dish, Miss Burton, Phila.....	194

10th, Cut Glass Cruet, Miss E. Graham, Phila.,	187
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Mrs. Reimels, New York.....	179
Mrs. Traendly, New York.....	174
Miss Boone, Baltimore.....	172
Mrs. Goebel, Phila.,	171
Mrs. Robertson, Phila.,	171
Mrs. Winterson, Chicago.....	167
Mrs. J. Wolff, Phila.,	164
Mrs. Dodds, Phila.,	160
Mrs. Harris, Phila.,	158
Mrs. Lutz, Baltimore.....	155
Miss Cooke, Washington.....	154
Mrs. Sibson, Phila.,	154
Mrs. Whitman, New York.....	150
Mrs. Donaldson, New York.....	146
Mrs. Seybold, Baltimore.....	149
Mrs. Herr, Lancaster.....	137
Mrs. Beneke, St. Louis.....	131
Mrs. Cooke, Washington.....	130
Mrs. Berking, St. Louis.....	130
Mrs. Koenig, St. Louis.....	126
Mrs. Pollworth, Milwaukee.....	123
Miss Witfeld, St. Louis.....	122
Miss M. Graham, Phila.,	122
Mrs. Richmond, Baltimore.....	109
Mrs. Blackstone, Washington.....	107
Mrs. Quarles, Louisville, Ky.,	107
Mrs. Rehder, Wilmington, N. C.,	104
Mrs. Vesey, Ft. Wayne, Ind.,	105
Miss Fulmer, Des Moines, Ia.,	102
Mrs. Dorp, Phila.,	97
Mrs. Bauer, Baltimore.....	95
Mrs. Kunzman, Louisville.....	93
Mrs. Kuhl, Pekin, Ill.,	91
Miss Freeman, Washington.....	90
Mrs. W. C. Smith, Phila.,	85
Mrs. Aug. Poehlmann, Chicago.....	81
Mrs. Powell, New York.....	80
Miss Shellem, Phila.,	79
Miss Cartledge, Phila.,	76
Mrs. Adolph Poehlmann, Chicago.....	66

THE SHOOTING CONTEST.

The annual shooting contest took place on Wednesday at the grounds of the Florists' Gun Club, Wissinoming, Pa. Between showers the blue rock busters had a good time and spent the balance of the afternoon bragging about what they could have done if Jupiter Pluvius had only behaved himself. The scores were as follows:

1st Event, 5 prizes, High Guns to win. G. O. Bell, 24; W. B. Westcott, 23; W. K. Harris, 23; W. A. Hammond, 22; H. Brown, 21; G. Anderson, 21; E. W. Stevenson, 19; C. D. Ball, 16; W. Wheeler, 15; J. Burton, 15; A. Rasmussen, 12; Ed. Reid, 11; F. Adelberger, 9.

2nd Event, 25 Birds, Handicap for C. J. Rainier Co. cups and other prizes. Rainier Cups to first 3 High Guns and 4 prizes to the next 4 High Guns with added Handicaps. Shot off at 25 birds.

H. Brown, 25-25; J. Burton, 25-25; J. Stevenson, 25-20; E. Lotz, 24; Ed. Reid, 24; A. Rasmussen, 24; C. D. Ball, 24; G. Anderson, 24; W. B. Westcott, 24; G. O. Bell, 24; W. A. Hammond, 23; W. K. Harris, 20; E. W. Stevenson, 19; W. Wheeler, 19; R. McLennan, 13.

Shot off at 10 Birds. E. Lotz, 10; Ed. Reid, 8; A. Rasmussen, 7; C. D. Ball, 6.

Messrs. Anderson, Westcott and Bell withdrew from the latter contest.

The employees of Bertermann Bros. Co., Indianapolis, Ind., and their families held an outing at the Cumberland place owned by the firm on August 17. Baseball and the usual sports were indulged in and before the company separated it was proposed that the outing become a regular feature of the summer.

A subscription for an appropriate memorial to the late Emile Laurent, the great Belgian scientific explorer, has been started, and the names of the most illustrious horticulturists and botanists of Europe are inscribed thereon. M. le baron van der Bruggen, Minister of Agriculture at Brussels, is chairman of the committee, and M. L. Gentil, superintendent of the Brussels's Botanic Garden, is treasurer of the fund.

THE NATIONAL FLOWER SHOW.

SCHEDULE OF PRIZES AS PERFECTED BY THE SCHEDULE COMMITTEE.

One of the Chief Objects of this Exhibition is to bring to notice deserving Novelties and Rare Plants, which will be awarded Medals or Certificates of the Society.

Exhibitors may rely upon careful consideration by the Judges of all Exhibits in this class, also all deserving Exhibits, new or otherwise, whether specified in this Schedule or not.

OPEN TO COMMERCIAL AND PRIVATE GARDENERS.

Best Flowering Plant, Variety not before exhibited, Medal or Certificate of S. A. F.

Best Foliage Plant, Variety not before exhibited, Medal or Certificate of S. A. F.

Best Pelargonium (Zonale) not before exhibited in America, Medal or Certificate. Certificates of Merit, Gold, Silver or Bronze Medals may be awarded to other deserving Novelties.

Best Fern, other than Nephrolepis, introduced within three years or to be introduced within one year from date of Exhibition, not over 8 in pot or pan, Medal or Certificate.

PLANTS, best finished Group containing foliage plants of any variety, arranged for effect, covering not over 200 square feet, \$75, \$50, \$25.

Twelve Foliage Plants, grown in not over 8-inch pots, two Crotons admissible, \$50, \$30, \$20.

Six Flowering Plants, six species, six varieties, grown in not over 8-inch pots, \$25, \$15, \$10.

CALADIUMS, six named varieties, \$20, \$12, \$8.

FERNS, six named varieties, not over 8-inch pots, no Adiantums admissible, \$20, \$12, \$8.

ADIANTUMS, six named varieties, not over 6-inch pots, \$20, \$12, \$8.

LYCOPODS, six named varieties, not over 8-inch pots or pan, \$20, \$12, \$8.

DRACAENAS, six named varieties, \$20, \$12, \$8.

CYCLAMENS, twelve plants, \$15, \$10, \$5.

CROTONS, 25 plants, 25 varieties, not over 8-inch pots, \$50, \$30, \$20.

Best Fern of any of the Nephrolepis varieties not over 8-inch pot or pan, introduced to commerce within three years, Medal or Certificate.

CROTONS, six named varieties, \$30, \$12, \$8.

CYCAS, single plant, named, \$10, \$6, \$4.

NEPENTHES, six named varieties, \$15, \$10, \$5.

BEGONIA REX, six plants, six varieties, \$20, \$12, \$8.

OWVIRANDRA FENESTRALIS, \$10, \$6, \$4.

AQUATICS, General display of Nymphaeas, Nelumbiums, Sedges, Papyrus, and other Aquatic plants, \$50, \$30, \$20.

MARANTAS, 12 plants, 12 varieties, not over 8-inch pots or pans, \$30, \$20, \$10.

ORCHIDS, Best display cut flowers and plants, \$300, \$200, \$100.

ORCHIDS, best six plants, in bloom, \$50, \$35, \$15.

ORCHIDS, Best plant in bloom, \$25, \$15, \$10.

WINDOW BOX, filled with ornamental foliage plants for household decoration, \$10, \$5.

FOLIAGE PLANTS, ten plants, not over 6-inch pots, not more than two of any species, two ferns admissible, \$20, \$10.

CHRYSANTHEMUMS, limited to varieties not eligible to compete as Seedlings. All Chrysanthemum plants must show a single, clear stem for at least one inch above soil. To be judged by the following scale of points:—

Size of plants, 15 points; Form, 20 points; Bloom, 20 points; General effect, 25 points; Foliage, 20 points.

CHRYSANTHEMUMS, Best Specimen plant in the Exhibition, \$25, \$15, \$10.

Ten Varieties, one plant of each, not over 12-inch pots, \$100, \$60, \$40.

Two Japanese, not over 12-inch pots, \$20, \$12, \$8.

Two reflexed, not over 12-inch pots, \$20, \$12, \$8.

Two Anemone, not over 12-inch pots, \$20, \$12, \$8.

Specimen Incurved, \$10, \$6, \$4.

Specimen Reflexed, \$10, \$6, \$4.

Specimen Pompon, \$10, \$6, \$4.

Specimen any variety not included in above classes, \$10, \$6, \$4.

Six plants, six varieties, not over 7-inch pots, \$20, \$12, \$8.

Six Plants Pompons, six varieties, not over 7-inch pots, \$20, \$12, \$8.

Six Plants, single varieties, not over 7-inch pots, \$20, \$12, \$8.

CHRYSANTHEMUMS, Flowers to be judged by the following scale of points:—

Color, 25 points; Form, 25 points; Fullness, 15 points; Stem, 10 points; Petalage, 10 points; Size, 15 points.

Twenty-five blooms, twenty-five varieties, \$25, \$15, \$10.

Six Vases, six named varieties, 10 blooms ea. \$50, \$30, \$20.

Vase, 25 blooms pink, named, \$15, \$10, \$5.

Vase, 25 blooms red, named, \$15, \$10, \$5.

Vase, 25 blooms white, named, \$15, \$10, \$5.

Vase, 25 blooms yellow, named, \$15, \$10, \$5.

Vase, 25 blooms any other color, \$15, \$10, \$5.

PLANTS CHRYSANTHEMUMS, Limited to varieties not eligible to compete as Seedlings. All Chrysanthemum Plants must show a single, clear stem for at least one inch above soil.

Specimen plant, White, not over 14-inch pot, \$20, \$12, \$8.

Specimen plant, Yellow, not over 14-inch pot, \$20, \$12, \$8.

Specimen plant, Pink, not over 14-inch pot, \$20, \$12, \$8.

Specimen plant, any other color, \$20, \$12, \$8.

Specimen plant Single, \$20, \$12, \$8.

Specimen plant, Anemone, \$20, \$12, \$8.

Three Standards, not less than 30-inch stems, \$60, \$40, \$20.

Five Standards, not less than 12-inch stems, not more than 24-inch stems, five varieties, \$50, \$30, \$20.

Five Specimen Plants, not over 10-inch pots, five varieties, \$50, \$30, \$20.

Five Specimen Plants, five single varieties, not over 8-inch pots, \$30, \$20, \$10.

Five Specimen plants, five Pompon varieties, not over 8-inch pots, \$30, \$20, \$10.

CHRYSANTHEMUMS, twenty-five plants, grown to single stem, not over 6-inch pots, one color, \$25, \$15, \$10.

Grafted specimen Chrysanthemum, must have at least 3-inch stem above soil, \$25, \$15, \$10.

CHRYSANTHEMUMS, Specimen plant, variety not disseminated prior to 1906, not over 14-inch pot, \$15, \$10, \$5.

Specimen Plant, White, not over 14-inch pot, \$15, \$10, \$5.

Specimen plant, Yellow, not over 14-inch pot, \$15, \$10, \$5.

Specimen plant, any other color, \$15, \$10, \$5.

Six plants, six varieties, not disseminated prior to 1906, in not over 6-inch pots, one bloom to a plant, \$10, \$6, \$4.

Twelve plants, white, not over 6-inch pots, one bloom to a plant, \$15, \$10, \$5.

Twelve plants, yellow, not over 6-inch pots, one bloom to a plant, \$15, \$10, \$5.

Twelve plants, pink, not over 6-inch pots, one bloom to a plant, \$15, \$10, \$5.

Twelve plants, red, not over 6-inch pots, one bloom to a plant, \$15, \$10, \$5.

Twelve plants, any other color, not over 6-inch pots, one bloom to a plant, \$15, \$10, \$5.

Twelve plants, twelve varieties, not over 6-inch pots, one bloom to a plant, \$15, \$10, \$5.

Four plants, Japanese, four varieties, different color, not over 14-inch pots, \$50, \$30, \$20.

Three plants, varieties not disseminated prior to 1906, not over 14-inch pots, \$40, \$25, \$15.

Ten Palms, not over 8-inch pots, not more than two plants of one variety, \$50, \$30, \$20.

Palm, not over ten-inch pot, \$10, \$6, \$4.

Boston Fern (or Sport of same) \$10, \$6, \$4.

Basket Asparagus Sprengeri, \$10, \$6, \$4.

Two Araucaria robusta compacta, \$10, \$6, \$4.

Two Araucaria any other variety, \$10, \$6, \$4.

Specimen Cibotium Scheidii, \$15, \$10, \$5.

Six Nephrolepis, six varieties, not over 10-inch pots or pans, \$30, \$20, \$10.

Best filled Fern Dish, not to exceed 15 inches in diameter, \$10, \$6, \$4.

Basket or Hamper of Plants, \$25, \$15, \$10.

Display of Cut Asparagus, not less than 25 strings, \$15, \$10, \$5.

CLASSES FOR PRIVATE GARDENERS ONLY.

Best ten Zonale Pelargoniums, not over two of one variety, not over 10-inch pots, \$30, \$20, \$10.

One Palm, \$10, \$6, \$4.

One Croton, \$10, \$6, \$4.

One Dracaena, \$6, \$4.

One Decorative Plant, other than above, \$10, \$6, \$4.

One Nephrolepis Bostoniensis, not over 10-inch pot, \$10, \$6, \$4.

One Nephrolepis Barrowsii, not over 10-inch pot, \$10, \$6, \$4.

One Nephrolepis Whitmanii, not over 10-inch pot, \$10, \$6, \$4.

One Nephrolepis Scotti, not over 10-inch pot, \$10, \$6, \$4.

One Flowering Plant, exclusive of Orchids and Chrysanthemums, \$10, \$6, \$4.

Five Foliage Plants, five varieties, not over 12-inch pots, \$25, \$15, \$10.

One Grafted Chrysanthemum Plant, \$20, \$12, \$8.

Most Novel or Rare plant, \$10, \$6, \$4.

Twelve Ferns, twelve varieties, \$25, \$12, \$10.

CUT FLOWERS.

Chrysanthemums, Twelve blooms White, \$10, \$6, \$4.

Twelve blooms Yellow, \$10, \$6, \$4.

Twelve blooms Pink, \$10, \$6, \$4.

Twelve blooms any other color, \$10, \$6, \$4.

The follow Classes are not limited to Private Gardeners:—

Roses, 100 American Beauty, arranged for effect (growers barred), \$100, \$75, \$50.

Carnations, Seedlings and Sports, White, twenty blooms, \$5, \$3.

Red, twenty blooms, \$5, \$3.

Pink, Daybreak class, twenty blooms, \$5, \$3.

Pink, Scott class, twenty blooms, \$5, \$3.

Pink, Lawson class, twenty blooms, \$5, \$3.

Yellow, or striped, or blotched, on yellow ground, \$5, \$3.

Sweepstakes, Best Seedling carnation entered in above classes, not exhibited previous to this year, Silver Cup valued at \$25.

Chrysanthemums, Seedlings, sports and importations not distributed, to be shown on stems not less than 18 inches long. Each variety shown which scales 85 points or over, will be awarded the Society's Certificate of Merit.

Six blooms White, one variety, \$5.

Six blooms Yellow, one variety, not darker than Major Bonnaillon, \$5.

Six blooms Yellow, one variety, darker than Major Bonnaillon, \$5.

Six blooms Pink, one variety, lighter than Vivand Morel, \$5.

Six blooms Pink, one variety, not lighter than Vivand Morel, \$5.

Six blooms any other color, one variety, \$5.

Sweepstakes, Best Seedling or Sport entered in above six classes, Silver Cup valued at \$25.

CUT FLOWERS, OPEN TO ALL.

Chrysanthemums, Sixty blooms, twelve varieties, five blooms of each, \$50, \$30, \$20.

Thirty-six blooms, six varieties, six blooms of each, \$30, \$20, \$10.

Twelve blooms, one variety, any color, \$10, \$6, \$4.

Best variety, not disseminated, \$10, \$6, \$4.

Six blooms, any color, \$10, \$6, \$4.

Vase, 100 Blooms White, \$50, \$30, \$20.

Vase, 100 Blooms Pink, \$50, \$30, \$20.

Vase, 100 Blooms Yellow, \$50, \$30, \$20.

Vase, 100 Blooms any other color, \$50, \$30, \$20.

In above four classes arrangement as well as quality of bloom to be considered.

Six blooms, one variety, White, \$5, \$3, \$2.

Six blooms one variety, Yellow, not darker in color than Major Bonnaillon, \$5, \$3, \$2.

Six blooms, one variety, Yellow, darker in color than Major Bonnaillon, \$5, \$3, \$2.

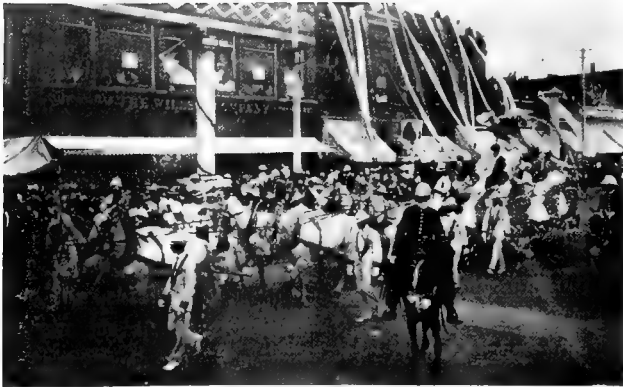
Six blooms Pink, lighter in color than Vivand Morel, one variety, \$5, \$3, \$2.

Six blooms Pink, one variety, not lighter in color than V. Morel, \$5, \$3, \$2.

Six blooms Red, one variety, \$5, \$3, \$2.

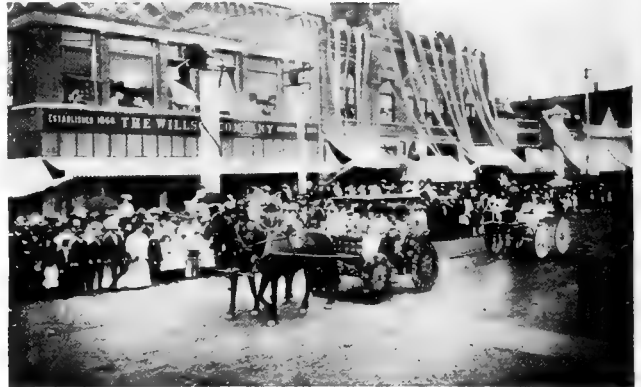
Six blooms Bronze, one variety, \$5, \$3, \$2.

BOZEMAN, MONT., SWEET PEA CARNIVAL.



THE QUEEN'S FLOAT

The Bozeman Sweet Pea Carnival, the only event of the kind in the north Rocky Mountain region, is in its second year. It started in a suggestion for the improvement of the gardens and lawns and proved effective in that direction. Prizes were offered for the best sweet peas in various kinds and conditions and almost everybody in town planted them and raised them. The effect so far, upon the amateur planting and culture of the peas, has been to increase the quantity rather than to improve the quality. The emphasis which the parade received, last year and this, has also tended to promote the use of artificial rather than natural flowers, because they keep better. This year only a few carriages were decorated with



JAPANESE CARRIAGE

natural sweet peas, though they were used extensively in window decorations, for there is an enormous number of the flowers produced here. Thousands of bouquets were distributed free on the transcontinental trains which pass through the town and wagon loads were distributed among the departing guests.

Among the striking features of the parade was a hay wagon, apparently loaded high with sweet peas, which were thrown from the top in bouquets to the crowd below. A placard was hung below inscribed, Sweet Peas, 50c a Ton. The float prepared for the Carnival Queen had the seats made in the shape of sweet peas, in which were seated the Queen and her attendants. One of the most ingenious conceptions

was the water lily carriage. The body of the carriage was made one huge blossom, in the centre of which sat a tiny girl dressed like a winged fairy.

Whether the carnival will be kept up, or whether it will be changed in form or aim, it is too early to say. As a means of beautifying the town, and stimulating the interest in flower gardening it has undoubtedly done much good. It has also helped to bring visitors to the town from the less attractive mining towns of the region. Perhaps if the Carnival is kept up it will show more results in stimulating growers to seek for a fine quality of flowers. There are several gardeners here who make a business of growing peas for the State market, and find it very profitable. W. F. BREWER.

Six blooms any other color, one variety, \$5, \$3, \$2.
Vase of 20 Blooms, one color, any variety, \$20, \$12, \$8.

CHRYSANTHEMUMS. Blooms, twelve Sprays Pompon, one variety, Pink, \$10, \$6, \$4.

Twelve Sprays, Pompon, one variety, Yellow, \$10, \$6, \$4.

Twelve Sprays, Pompon, one variety, Red, \$10, \$6, \$4.

Twelve Sprays Pompon, one variety, White, \$10, \$6, \$4.

Twelve Sprays Pompon, one variety any other color, \$10, \$6, \$4.

Twelve Sprays Anemone, one variety, \$10, \$6, \$4.

Collection, Poms, three sprays each variety, \$20, \$12, \$8.

OPEN TO ALL. SEEDLINGS ADMISSIBLE.

CHRYSANTHEMUMS. twelve blooms, twelve varieties, \$10, \$6, \$4.

Collection named varieties, one bloom each, forty varieties, \$25, \$15, \$10.

Collection named varieties, one bloom each, to be shown on mossed boards supplied by the Society, \$25, \$15, \$10.

Collection, twelve varieties, to be shown on mossed boards supplied by the Society, \$10, \$6, \$4.

Specimen Bloom, any color, \$10, \$6, \$4.

ROSES. Wednesday, 100 American Beauty, \$100, \$75, \$50, \$25.

100 Liberty, \$35, \$25, \$15.

100 Richmond, \$35, \$25, \$15.

100 Golden Gate or Uncle John, \$25, \$15, \$10.

100 Bride, \$25, \$15, \$10.

100 Bridesmaid, \$25, \$15, \$10.

100 Madame Chatenay, \$25, \$15, \$10.

100 Any other variety, \$25, \$15, \$10.

Twelve blooms of new Rose, never exhibited in this country previous to this season, Silver Cups value \$25.

Twenty-five blooms any variety not in commerce, \$15, \$10, \$5.

CARNATIONS. White, Fifty White Lawson, \$5, \$3.

Fifty The Belle, \$5, \$3.

Fifty White Cloud, \$5, \$3.

Fifty Lady Bountiful, \$5, \$3.

Fifty Lieutenant Peary, \$5, \$3.

Fifty White Perfection, \$5, \$3.

Fifty White Enchantress, \$5, \$3.

Fifty any other White, \$5, \$3.

Carnations, Red, Fifty Victory, \$5, \$3.

Fifty Robert Craig, \$5, \$3.

Fifty Red Riding Hood, \$5, \$3.

Fifty John E. Haines, \$5, \$3.

Fifty Beacon, \$5, \$3.

Fifty any other Red, \$5, \$3.

Carnations, Crimson, Fifty Harlowarden, \$5, \$3.

Fifty Harry Fenn, \$5, \$3.

Fifty Governor Roosevelt, \$5, \$3.

Fifty any other Crimson, \$5, \$3.

Carnations, Pink, Fifty Winsor, \$5, \$3.

Fifty Rose Pink Enchantress, \$5, \$3.

Fifty Enchantress, \$5, \$3.

Fifty Mrs. T. W. Lawson, \$5, \$3.

Fifty Nelson Fisher, \$5, \$3.

Fifty Helen Goddard, \$5, \$3.

Fifty Aristocrat, \$5, \$3.

Fifty Pink Imperial, \$5, \$3.

Fifty Melody, \$5, \$3.

Fifty any other Pink, \$5, \$3.

Carnations, Variegated, Fifty Mrs. Pat-

ten, \$5, \$3.

Fifty Prosperity, \$5, \$3.

Fifty Variegated Lawson, \$5, \$3.

Fifty any other Variegated, \$5, \$3.

Carnations, New Variegated, 50 White, introduction of 1907, \$5, \$3.

Fifty Pink, introduction of 1907, Day-

break Class, \$5, \$3.

Fifty Pink, introduction of 1907, Scott

Class, \$5, \$3.

Fifty Pink, introduction of 1907, Lawson

Class, \$5, \$3.

Fifty, Red, introduction of 1907, \$5, \$3.

Fifty any other color, introduction of

1907, \$5, \$3.

SPECIAL. OPEN TO ALL. SEEDLINGS

ADMISSIBLE.

Carnations, Best 100 White, \$12, \$8, \$4.

100 Pink, Daybreak Class, \$12, \$8, \$4.

100 Pink, Scott Class, \$12, \$8, \$4.

100 Pink, Lawson Class, \$12, \$8, \$4.

100 Crimson, \$12, \$8, \$4.

100 Red, \$12, \$8, \$4.

100 any other color, \$12, \$8, \$4.

Violets, Display, 800 Blooms, \$15, \$10, \$5.

Lily-of-the-Valley, Display, 500 Blooms

\$25, \$15, \$10.

It is the purpose of the management

to have a large and fine display of

Cut Flower Work, believing that such a display would prove attractive to the public. Under the competitive plan this has always been difficult, or impossible, to accomplish, because no competitor in the retail business wants to get "Second" or "Third" premiums. It is proposed to have several examples of each item, as shown in the list below. Any florist desiring to exhibit, will please notify the Superintendent of the Exhibition. If there are too many applicants, the exhibitors will be chosen by lottery.

The management reserves the right to reject any exhibit deemed unworthy.

Mantel, 15 in. x 6 ft.; Mirror, grate, two examples, \$35 each.

Panel, 3 ft. x 5 ft., six examples, \$25 each.

Doorway Decoration, 8 ft. x 8 ft., four examples, \$40 each.

Dinner Table, round or oval, for 12 covers, four examples, \$50 or \$75 each.

Roses in tall vases, 4 ft. to 6 ft. high.

Fifty American Beauty, arranged for effect, four examples at \$50 each.

Fifty Any other Rose, arranged for effect, four examples, \$25 each.

One hundred Carnations, vases 2 ft. to 4 ft. high, arranged for effect, six examples, \$25 each.

Mirror Decoration, size of Mirror 4 ft. x 6 ft., \$25.

Chandelier Decoration, two examples at \$15 each.

Steamer Basket or Hamper, four examples at \$25 each.

Bride's Bouquet, six examples at \$25 each.

Bridesmaid's Bouquet, pair; three pairs at \$20 each.

Floral Valentine, six examples at \$10 each.

Chancel Decoration for Church Wedding, four examples \$50 each.

Decoration of Reception Room, four examples, \$50 each.

Decoration of Room for Home Wedding, four examples, \$75 each.

"Art Gallery." Deep frames, about 3

THE NEW ENGLAND NURSERIES, Inc., BEDFORD, MASS.

EVERGREENS in TUBS. These are extra selected specimens, suitable for Hall and Veranda Decoration. EVERGREENS for LAWN and FOREST planting. We offer the largest stock of SPECIMEN Evergreens in New England, in sizes 15 inches to 15 feet

ALL OUR EVERGREENS ARE HANDLED WITH BALLS OR IN TUBS.

We offer several acres of FIELD-GROWN PERENNIALS, in about 1000 Varieties at very low rates.

We send out nothing but STRICTLY HIGH-GRADE STOCK, carefully packed, and our prices are always right.

Catalogs and Price Lists Free.

Lady Gay THE FAMOUS RAMBLER ROSE

2 1/4 in. Pots, \$10.00 per 100

3 1/2 in. Pots, 12.50 per 100

Ready to Pot On or Line Out in the Field

Thomas Roland
NAHANT, MASS.

20,000 California Privet For FALL and SPRING Delivery

Four feet bushy stock.

Three times transplanted

THIS IS IDEAL STOCK FOR MAKING IMMEDIATE HEDGES

Price in carload lots (about 5000 to a car) - \$40.00 per 1000

Smaller quantities - - - - - 50.00 " 1000

No charge made for packing

COTTAGE CARDENS CO., Inc. - Queens, New York

LADY GAY AND HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

M. H. WALSH
ROSE SPECIALIST WOODS HOLE, MASS.

ft. x 5 ft., fifty examples to cost \$15 each. Frames to be furnished by the management should be arranged and lighted similar to Picture Gallery.

RECAPITULATION.

Mantel, Mirror and Grate, two at \$35	\$ 70
Panel, six at \$25	150
Doorway, four at \$40	160
Dinner Table, four at \$75	300
American Beauty Vases, four at \$50	200
Any Other Rose Vases, four at \$25	100
Carnations, six at \$25	150
Mirror, 4ft. x 6 ft., four at \$25	100
Chandelier, two at \$15	30
Steamer Basket, four at \$25	100
Bride's Bouquet, six at \$25	150
Bridesmaid's Bouquet, three pairs at \$20	60
Floral Valentine, six at \$10	60
Chancel Decoration for Church Wedding, four at \$75	300
Decoration for Home Wedding, four at \$50	200
Decoration for Reception Room, four at \$50	200

\$2330

Art Gallery, fifty at \$15

750

\$3,080

SPECIAL PREMIUMS.

Special Premium on exhibit to be selected, Silver Cup, value \$50, offered by Vaughan's Seed Store.

Special Premium, Silver Cup, value \$50, exhibit to be selected, offered by Chas. H. Totty.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

John Waterer & Sons, Ltd. AMERICAN NURSERY BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

AUGUST SEPTEMBER } is the time to plant { EVERGREENS PERENNIALS

CATALOGUES FREE

Field Grown — Largest Variety in New England

The BAY STATE NURSERIES, North Abington, Mass.

FINE GRADING HARDY PERENNIALS

.. Shrubbery ..
Artistically Planted

Estimates Given Experts on Pruning

D. ROBINSON'S SONS

Revere Beach Parkway, Everett, Mass.

In ordering goods please add, "I saw it in HORTICULTURE."

Viburnum Plicatum
Berberis Thunbergii
Hydrangea Pan. Grand,
Honeysuckle Heckrottii

LARGE STOCK.
Send for Prices.

The CONARD & JONES CO.
WEST GROVE, PA.

Yucca filamentosa. Aconitum Napellus and bicolor. Helonium superbum and striatum. Rudbeckia. Hemerocallis. German Iris, many colors. Hardy Phlox, 20 varieties. Funkia subcordata. Write for prices to

T. H. CHIVERS, - Amesbury, Mass.

Established 40 Years

Rose Hill Nurseries

New and Rare Plants

NEW ROCHELLE, N. Y.

New York Office, Siebrecht Building, 425 Fifth Avenue.

FOR SALE

200 Lady Gay 200 Dorothy Perkins
200 Crimson Ramblers

Nice Stock in 2 1/2 inch pots, ready for 3 1/2 inch \$10.00 per hundred

F. E. PALMER, Brookline, Mass.

Seed Trade

There has been much discussion of the recent item on the growing of seed peas which appeared in these columns and of course there are two views expressed, the growers looking at the matter from their viewpoint, and the seed merchants from theirs, and while a majority of the latter insist that prices are high enough, and object to any advance, a few of the more progressive and broad-gauge recognize the force of the reasons given for the suggested increase, and say that if this increase carries with it superior quality, they are quite willing to pay it.

There is no question that the lowering of prices has resulted in the lowering of quality, and until prices are raised to a point where the grower can afford to give the time and expense needful to improve and maintain the quality of his stocks, the complaints against the quality will continue.

In comparing present day growing prices with those of twenty-five and thirty years ago it will be noted that there has been a great decline, and yet there is no good reason for this. It costs more to do business today than it did twenty-five years ago, and certainly much more than ten years ago, and while this fact has been recognized and applied by practically every industry in the country, the seed grower has continued to produce his goods at the same old prices, if indeed he has not lowered them, with the inevitable result—depreciation in quality. Is this because the average seed grower has received less gray matter than his brothers in other industries? Results speak for themselves.

It is not the purpose of the writer to make out a case for the grower, but to state facts, and these facts will undoubtedly be recognized by all candid, intelligent readers, fully acquainted with the subject.

The aim has been to elevate the seed trade, and there is no surer or better way than by improving the stocks they sell, and high quality can not be maintained on low prices; such a condition is artificial, and to quote the words of Emerson, "Nothing artificial, nothing arbitrary can endure."

If the trade will only recognize this fact and be willing to pay the grower a little more for his product, and the grower on his part will give more intelligent, painstaking care to his crops, both will be duly recompensed, the seed buying public would be better served, and the prestige and reputation of the seed trade correspondingly increased.

It begins to be evident that the varieties of sugar corn are doomed to failure in many sections of the country. A general failure is not expected, but the prediction is here made that 1907 will be rated a very poor corn year. It will also not be a good year for vine crops, and as the nights have already become cool, the warmth of the sun during the day will not be sufficient to enable tardy crops to catch up.

Judging by offers of onion seed coming from unexpected quarters, the

MICHELL'S MUSHROOM SPAWN

Our Mushroom Spawn is used by the leading growers throughout the country on account of its superior quality. Made by the same party who manufactured for us when we first embarked in the Seed business. He has upheld his reputation as a first-class English Spawn maker and this made our name prominent among the largest Mushroom Growers.

ENGLISH MUSHROOM SPAWN

15c per	Brick
\$1.40 " 12 "	
1.75 " 25 Pounds	
6.00 " 100 "	
55.00 " 1000 "	
250 pounds at 1000 pound rate	

PURE CULTURE SPAWN

20c per	Brick
\$1.80 " 12 "	
3.25 " 25 "	
7.00 " 50 "	
13.50 " 100 "	
115.00 " 1000 "	

Our Advance Price List of Bulbs is Ready

HENRY F. MICHELL CO., 1018 Market St., Phila., Pa.

tramp crop will be much more of a factor than has been generally expected, and those who have been holding tightly to their seed with the expectation of getting some unreasonably high prices will regret that they did not sell when they could have drawn good but fairly reasonable figures. Prominent dealers now predict that yellows will range from \$1.00 to \$1.25, and flat reds from \$1.25 to \$1.50, white Portugal \$2.00, and white Globe \$2.50 to \$3.00, while red Globes will be little if any higher than flat reds.

Rumors that California seed growers are selling direct to consumers are again going the rounds, to be once more denied by those worthies, but where there is so much smoke there must be some fire. No names are given, but it should not be very difficult to learn the truth. This would seem to be a proper subject for the Wholesale Seedsmen's League to investigate.

T. J. Gray, the Boston seedsman, who has just returned from a visit to England, Scotland, Ireland, Holland and France, tells of an interesting episode at The Hague on the Queen's birthday. As he was entering the Victoria Hotel he saw four American flags waving down the street; he walked down and saluted them, and as he did so a hurrah went up from the hotel. A party of twenty-eight young ladies from Ohio, traveling with Col. Edward Wilson of Columbus, had observed his action, and as he stepped into the hotel they sang "The Star Spangled Banner."

L. W. Wheeler, for the past seven and a half years manager of the New York Branch of Vaughan's Seed Store, has resigned, and will start shortly for Southern California, where he expects to make his home. Mr. Wheeler is treasurer of the New York Florists' Club.

S. D. Willard, of Geneva, N. Y., State fair commissioner, is making a special effort to have large exhibits of flowers

and fruits at the State Fair this season.

The Tucker Seed House, Carthage, Mo., have purchased the fixtures of the Parsons Seed Co. and are making improvements on a large scale.

M. B. Faxon, formerly with the Livingston Seed Co., Columbus, O., has taken a position with J. M. Thorburn & Co., New York.

PUBLICATIONS RECEIVED.

DAFFODILS-NARCISSUS AND HOW TO GROW THEM.—Doubleday, Page & Co., New York.

Here is a book written with the laudable purpose of increasing the public interest in and knowledge of this most beautiful and varied of all the garden bulbs, but which because of its thoroughness and technical information as to classification and culture which it gives will prove as well a valuable handbook for the professional grower or dealer. A ready explanation of this somewhat unusual quality in horticultural books intended primarily for the public lies in the fact that the author is A. M. Kirby, well-known as the head of the bulb and flower-seed department of the seed house of Peter Henderson & Co., a gentleman well qualified to instruct on the subject.

The book will be found especially valuable because the varieties are rated as to their capabilities under American conditions and the garden value is kept constantly in the foreground. The text is divided into two parts: (1) Culture, including commercial production of cut flowers in the field and under glass; (2) a critical appraisal of all the varieties commonly in the trade (about 500). The illustrations are thirty-two in number and admirably supplement the text. The appendix contains a key to the daffodils, by Wilhelm Miller and Leonard Barron.

The price of the book is \$1.10 net, or \$1.21 post free. In style it is uniform with previously published vol-

BAMBOO CANES TOUGH AND STRONG

6 ft. long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO., - 50 Barclay St., New York

umes in the Garden Library ("Roses," "Ferns," and "Lawns"), and any one or all of the four can be supplied at above quoted price by Horticulture Publishing Co., 11 Hamilton Place, Boston.

The McFarland Publicity Service, Harrisburg, Pa.—"The McFarland Message" for September. This periodical, published in the interests of better catalogues, handsomer illustrations, artistic printing, and modern methods of publicity generally, is well worth having. Indeed, no one issuing a catalogue can afford to be without it. One dollar a year for the cream of J. Horace McFarland's ideas in monthly instalments is a cinch.

CATALOGUES RECEIVED.

B. Hammond Tracy, Wenham, Mass.—Cedar Acres Gladioli.
Chicago Carnation Company, Joliet, Ill.—List of field-grown carnations.
W. W. Rawson & Co., Boston, Mass.—Wholesale list of bulbs for fall planting.
J. W. Barwell, Waukegan, Ill.—Folder of Blatchford's English Lawn Grass Seed.
E. Y. Teas Company, Centerville, Ind.—Wholesale price list of Peonies for fall of 1907.
H. H. Berger & Co., New York City.—Fall catalogue of bulbs, seeds and plants. The cover of this very complete list is illustrated with a handsome cluster of Narcissus poeticus.

GIGANTIC CYCLAMEN

Sow Now for Results

BODDINGTON'S GIGANTIC CYCLAMEN SEED

in magnificent mixture, containing the most superior colors, such as Blood-Red, Salmon, Light Pink, Dark Pink, White, etc., in equal proportions.

GIGANTIC CYCLAMEN MIXTURE

Per trade pkt., 50c. 100 seeds, \$1.25
\$12.00 per 1000

Our catalogue mailed free

ARTHUR T. BODDINGTON
342 West 14th St. NEW YORK, N. Y.

CABBAGE PLANTS

Early and Late Flat Dutch, Succession and Savoy \$1.00 per 1000, 10,000 and over 50c. per 1000.
CELERY, Golden Self Blanching, Giant Pascal, White Plume, Winter Queen, Golden Heart, \$1.00 per 1000, 10,000 and over 50c. per 1000.
Borecole, Brussels Sprouts, Leek, \$1.00 per 1000.
Lettuce, Grand Rapid, Boston Market, Defiance, \$1.00 per 1000. Moss Curled Parsley \$1.00 per 1000.
My Plants are Fine. Cash with order, please.
SAMUEL W. SHANKLIN, WHITE MAHSH, MD.

CELERY PLANTS

100,000 WHITE PLUME

All Transplanted plants. Many rootlets. Unlike those grown in the ordinary way. None better.
500, \$1.50; 1000, \$2.50; 5000 or over \$2.00 per 1000.
Cash with Order

W. B. DU RIE, Rahway, N. J.

TO THE TRADE

READY NOW

BEGONIA

Gloire de Lorraine

Plants from 2½ in. pots

\$15.00 per 100

\$140.00 per 1000

R. & J. FARQUHAR & CO.,

6 and 7 So. Market St., BOSTON.

Vick's Superb Pansy Seed

All the best varieties in separate colors
VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 85c. 1-4 oz. \$1.60 Ounce \$6.00

JAMES VICK'S SONS, Rochester, N. Y.

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

CAULIFLOWERS CABBAGE SEED

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

You will find something worth reading on every page of HORTICULTURE.

BODDINGTON'S CHRISTMAS SWEET PEAS

BODDINGTON'S EXTRA-EARLY CHRISTMAS WHITE SNOWBIRD.

An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing. Color clear white upon long stems; habit fairly dwarf, and of exceptionally free flowering qualities. Trade pkt. 50c., per oz. 30c., ¼ lb. \$1, ½ lb. \$1.50, lb. \$2.50.

CANARY. Similar to the above, but flowers of an exceptionally good yellow. Trade pkt. 50c., per oz. 30c., ¼ lb. \$1, ½ lb. \$1.50, lb. \$2.50.

FLAMINGO. Color scarlet; free-flowering and early. As the crop of this variety was small, we can only send out packets this season for trial. Pkt. 25c., 5 pkts. for \$1.

BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation as by sowing the seed under glass in latter part of August, the flowers can be cut from Thanksgiving on during the winter months. Per oz. 10c., ¼ lb. 30c., ½ lb. 50c., lb. 75c.

BODDINGTON'S CHRISTMAS WHITE. A grand companion to Christmas Pink. Per oz. 10c., ¼ lb. 30c., ½ lb. 50c., lb. 75c.

Our Fall Bulb Catalogue now ready, if you have not already secured one—send a postcard today. Besides a full collection of seeds for fall sowing it contains a list of over

Two Hundred Varieties of
Perennial Seeds

that can be sown now.

ARTHUR T. BODDINGTON

342 W. 14th St., NEW YORK CITY

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY CO.

32 & 33 So. Market St., BOSTON

HIGH GRADE French and Dutch BULBS

For prompt shipment, our Fall Bulbs Catalogue sent on request.

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS.

**BERMUDA GROWN LILIAM HARRISII
AND FREESIA BULBS**

PURITY FREESIA BULBS

Ready for Delivery

H.E. Fiske Seed Co., 12 & 13 Faneuil
Hall Square
BOSTON, MASS.

BRASLAN SEED GROWERS CO.

GROWERS FOR THE
WHOLESALE TRADE ONLY

SAN JOSE, - - CALIFORNIA

C. C. MORSE & CO.

Address all communications to our permanent address
48 to 56 Jackson St., San Francisco, Cal.

**The Largest Seed Growers
in the United States**

ZIRNCIEBEL'S GIANT PANSIES

Fresh Crop

Now Ready

Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNCIEBEL. None genuine unless sold by me.

AUGUSTUS ZIRNCIEBEL, Needham, Mass.

GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.

GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

SEEN AT RIVERTON.



EXHIBIT OF CALADIUMS, FERNS AND PHLODENDRA

We present herewith two views taken in the Dreer greenhouses on the occasion of the S. A. F. visit last week. The Dreer establishment was founded in 1832 and incorporated in 1892 with Wm. F. Dreer as president of the company. The nurseries at Riverton cover 100 acres and there is an auxiliary farm of 30 acres near Moorestown, N. J. The glass at Riverton covers nine acres and heating is done by sixteen boilers, the water and steam being distributed through 23 miles of pipe.

In the group of new nephrolepis shown herewith are included *Todea-*

oides, *Whitmanii*, *Amerpohlii*, Dreer's *Robusta* and a number of unnamed sports originating with Dreer and Barrows.

A large space is devoted to ferns of which about two million plants are handled during the season and palms occupy a large area there being at present 500,000 plants in stock in various sizes.

About 100 acres are devoted to the culture of dahlias, cannas and hardy perennials. The aquatic gardens cover an area of six acres in which are grown all known varieties of water lilies and lotus; making the largest and most complete collection in existence.



EXHIBIT OF NEW NEPHROLEPIS FORMS

THE IDEAL PARK.

An address before the American Association of Park Superintendents, by Theodore Wirth.

I have often thought, of late years, that Park work would at times become almost monotonous if same required only the attention and skill to make parks attractive and keep them in good trim. Yet it was, more or less, with such a confined idea of duty and requirement, that I assumed the administrative burden of my first appointment as park superintendent.

I entered that service as a landscape gardener. Today, I proudly claim to be more, because I have found out that our parks must be more than only beauty spots in order to accomplish all the good they can in public life. I am finding, almost daily, new fields and openings for useful, beneficial service to the public, outside of the gardening profession, and all those innovations into the original plans and ideas of park work and park life, do not only not interfere or mar the beauty of the original picture and its conception, but on the contrary, in most cases they enhance the beauty of same, and in all they many-fold increase the value of the work as a whole.

Some twenty-five years ago, one of the leading park builders of the West, was engaged in designing a park system for a very promising growing city, and in reading his report outlining the plans he then submitted, one can readily see that outside of the desire to preserve natural scenery and create additional beauty spots, the full, far-reaching value of parks as a recreation grounds was at that time not fully recognized, or at least did not receive due consideration. Let me quote him as follows:

"I strongly recommend an extended system of boulevards, or ornamental avenues, rather than a series of detached open areas or public squares. The latter are certainly desirable and always form attractive features, but they are comparatively local in their character, and fail to impart such dignity and beauty as is conferred by a grand ornamental avenue, comprising a continual succession of pretty gardens enlivened by the constant passing of throngs of pedestrians and fine equipages."

Now this man at his time was up-to-date, and the sentiment and opinion expressed in those few lines show, if I interpret them right, a certain limit of the purpose and usefulness of parks, which in the last ten or fifteen years has almost everywhere been happily overstepped and widened. The local, district or neighborhood park, whatever we may call same, has come to the foreground as a most important factor to any complete park system.

New cities in planning their system give them from the beginning due consideration and thought, while older cities spend enormous sums to acquire comparatively small tracts of land for this very purpose and need, which, although always in existence, has been clearly underestimated if it has not been totally unrecognized.

The by far largest percentage of those neighborhood parks are or should be located in those parts of our cities where the population is or will become the most congested, and consequently they are the recreation grounds



Dreers Special Offer OF ARAUCARIAS

Our stock of Araucarias is exceptionally fine this season, the plants are well hardened off and if you anticipate to lay in a supply, now is the time to buy. We are in position at present time to give you much better values than after the plants are placed in winter quarters.

ARAUCARIA EXCELSA

4 inch pots,	6 to 7 inches high,	2 tiers.....	35 cents each
5 " "	10 to 12 " "	3 "	65 " "
6 " "	12 to 14 " "	3 to 4 "	75 " "
6 " "	14 to 16 " "	4 "	\$1.00 "
6 " "	16 to 18 " "	4 "	1.25 "

ARAUCARIA EXCELSA CLAUCA

5 inch pots,	8 inches high,	2 tiers.....	\$0.75 each
6 " "	12 " "	3 "	1.00 "
6 " "	13 to 15 " "	3 "	1.25 "

ARAUCARIA ROBUSTA COMPACTA

6 inch pots,	10 to 12 inches high,	2 to 3 tiers.....	\$1.25 each
6 " "	14 to 16 " "	3 "	1.50 "

For a complete list of Decorative Plants as well as a full line of other seasonable stock in Plants, Bulbs and Seeds see our new Wholesale List issued September 1st.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

of the people who need them the most. Large parks are all right, but unless they are within easy reach of the poorer classes, they will be comparatively little benefited by them. Twenty-five or fifty cents are soon spent for car fare alone by even a small family for occasional visits, while they ought to be able to get the benefit of such a breathing spot at no cost, and at all times within easy walking distance.

The up-to-date neighborhood park of today embraces more than well kept lawns, attractive flower-beds, screening shrubbery plantations, shady walks and rest-inviting settees. Some of the most useful innovations are the playgrounds, in and outdoor gymnasiums wading and swimming pools, etc., and in some systems of our larger cities, we find libraries, reading, club and meeting rooms, indoor swimming pools, baths and shower-baths, etc., and the regularity with which they are visited by numberless thousands the year in and out, since their inauguration, shows convincingly that they fill a pressing demand and receive thankful appreciation.

The larger parks of most cities are equipped with bandstands, and concerts are given at frequent intervals, if not every day during the summer season. Those concerts ought to be free to everyone everywhere, but I want to go further than that and say that such concerts ought to be given at such neighborhood parks as often as possible. Of course it will be impossible, and it is by no means necessary, that such concerts be given every night, but if they could be had one a week or so, it would give a lot of pleasure and untold happiness to a class of people who have not the time nor the means to attend such concerts in parks far from their homes. Such musical entertainments bring together all the families of entire neighborhoods. They will come, young and old, and they will feel that in their neighborhood

park, they have an institution that is worthy of their appreciation, support and care. They will look forward to those concerts as a large joyful family gathering and they will go home each time happier and elated, because we are all susceptible to the tender, inspiring influence of music and forget, under same, our cares and worries, and become happy and joyful. It will bring the love for music to every home and make them happier; it will mean



THEODORE WIRTH

musical education for the masses for the love of music itself.

Such concerts in local parks do not call for an extra large expense, for it is not necessary that each park be equipped with a costly bandstand; in fact such structures may well be avoided, for they are, under the very best conditions, no ornament to any park. The main thing is a well organized band of good musicians who are willing to play wherever the bandstand is erected. The latter can be

moved from park to park, and need not be very cumbersome.

We have tried the experiment of such free concerts in our small parks in Minneapolis this season.

It has been a constant pleasure to me to observe the enthusiastic enjoyment of the music by the thousands who have attended every concert. This is particularly true of those given in outlying parks, in parts of the city remote from its center of entertainment, populated by people whose income will not permit the expenditure of much money for amusement, and whose undirected tastes would lead them to spend what little they might afford on entertainments of mediocre if not of debasing quality. The free concerts have temporarily depopulated the neighborhoods in which they were given. Everyone came to the park to hear the band—fathers and mothers, grandfathers and grandmothers, young men with their sweethearts and innumerable children in assorted sizes. Their attention to the music was closer than that of the more cultivated audiences at Lake Harriet, their applause more enthusiastic and their pleasure franker and more apparent. Sordid cares were forgotten under the spell of outdoor music on a summer night. The programs have been of standard and light music and many of the standard works have proved themselves favorites.

The chief purpose of the concerts, of course, has been to impart pleasures, and in this alone they have repaid over and over again the expense of giving them. They will have, furthermore, two secondary or future effects, which cannot be calculated, but which may be considered as interest on investment. One of these is their educational and refining influence, and the other is the popularizing of the parks by bringing to many people a first realization of their beauty and of their resources as places of recreation.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY.

Two exhibitions are scheduled by the Massachusetts Horticultural Society for the first week in September. The first is the dahlia show, which will be held at Horticultural Hall, Wednesday and Thursday, September 4 and 5. From the widespread interest in this popular flower it is safe to say that this exhibition will surpass anything ever seen before in this country, as entries have been made by the principal commercial and amateur dahlia growers of New England. In addition to dahlias there will be also fine displays of seasonable flowers, fruits, and vegetables. This exhibition is free to all and will be open Wednesday from 12 m. to 6 p. m., and Thursday from 10 a. m. to 6 p. m. The second exhibition of the week is the annual exhibition of the products of children's gardens. This will be held Saturday, September 7, from 12 to 4 o'clock. Numerous prizes are offered for collections of flowers and vegetables from school gardens. It will be an unique and interesting display.

WM. P. RICH, Secretary.

LACHINE (P. Q.) HORTICULTURAL SOCIETY.

A very successful flower show was held under the auspices of the Lachine Horticultural Society in City Hall. A large gathering of friends attended, and strong encouragement was accorded by the people of the town. The formal opening took place on August 22 by F. D. Monk, M. P., and A. J. Dawes, president of the Lachine Society. The society was congratulated on the fine exhibition presented, and deservedly so. The competition was larger, better and keener than formerly. The honors in the professional section were contested between Messrs. C. McHugh of Forest and Stream Club; Joseph Bennett, florist; G. Vreugde, gardener to Mr. C. M. Hays; C. A. Smith, gardener to Mr. E. A. Dawes; E. Pewtress, gardener to Mr. Allan; J. Edwards, gardener to Mr. Pepin; A. Cole, and others.

The list of the amateurs is too long to be reported, yet the following gentlemen should not be omitted for their large and good exhibits: Messrs. F. S. Watson, F. J. Church, J. Bartlett, B. Massie and K. Robinson.

FLORISTS' HALL ASSOCIATION OF AMERICA.

At the annual meeting of the Florists' Hall Association on Thursday, August 22, at Philadelphia, the old officers were re-elected. The new directors chosen were H. G. Tull and John T. Temple.

PASADENA GARDENERS' ASSOCIATION.

On the evening of August 16 the members of the association met at the home of Mr. Cooledge. They were invited to inspect the many different varieties of tropical and sub-tropical fruits grown out of doors, among which were eleven varieties of grapes. The subject of magazines or papers for gardeners was laid before the body and as a paper for Southern California has been long talked of, it was decided to issue a monthly paper. "The Pasadena Gardens" was the name selected and the initial number will be issued about December by the Association. Messrs. Blake, Campbell and Cooledge were appointed to raise stock subscriptions. Considerably over \$5000 has been secured.

SOUTHAMPTON HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held on August 12, President Clark in the chair. Vice-President Halsey showed a fine collection of flowers. Mr. Griffin, gardener to Mr. Howard Townsend, showed fine Carmen No. 1 potatoes, and explained his method of culture. The subject of using Bordeaux as a spray for potatoes was ably discussed and the majority seemed to think the only way to have success in potato growing in this climate was to use it. The question box brought out the usual interesting exchange of opinions. The next meeting will be on September 9. The society will hold a flower show on the afternoon and evening of September 4.

U. G. AGER.

CLUB AND SOCIETY NOTES.

Charles E. Meehan will speak before the Philadelphia Florists' Club on September 5 on "The Philosophy of Wholesaling."

The Wappingers Dahlia Society hold their seventh annual exhibit in Park Hall, Wappingers Falls, N. Y., September 20 and 21.

The first annual exhibition of the Southampton Horticultural Society will be held at Agawam Hall, Southampton, L. I., on September 4.

The premium list of the Newport Horticultural Society for their autumn exhibition, September 17-19, in Masonic Hall, includes attractive cash prizes and a silver cup from Henry A. Dreer Co.

Announcements of the ninth annual exhibition of the Tarrytown Horticultural Society are issued. The list includes twenty-six special classes and sixty-five others. November 6-8 are the dates.

The Society for Horticultural Science will hold its fifth annual meeting at the Jamestown Exposition in connection with the American Pomological Society, September 24-26. The single

topic of plant breeding will be discussed.

At the annual fair of the Rensselaer County Horticultural and Agricultural Society (N. Y.), which opened on August 21, one of the most attractive displays was the flower show under the management of Mr. and Mrs. I. Cipperley, which was made in a large tent.

The Springwater Floral Society, N. Y., held its first floral carnival on August 13 and 14. Fine displays of gladioli and sweet peas were made by E. A. Higgins and Chas. Larrowe. The Wadsworth silver cup for the best garden display was awarded to Mrs. Minnie Amos.

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third annual exhibition of the Nassau County, N. Y., Horticultural Society, to be held November 6-8, has been issued. The premium list includes a silver cup from the F. R. Pierson Co. for twenty-five Winsor carnations and a silver cup from Scott Bros. for fifty carnations arranged for effect.

At a meeting held at Hotel Marion, Little Rock, Ark., on August 16, the Arkansas State Floral Society was organized and officers elected as follows: pres., J. J. Mandlebaum; vice-pres., J. F. Letton; G. B. Tucker; secy., G. R. Brown; treas., W. P. Pollock. It was unanimously decided to hold a chrysanthemum show November 14-16.

The Field Naturalist Society of Central Falls, R. I., held their ninth annual flower show on August 24. The exhibits were extensive and many prizes were awarded. The Lawton silver cup for the neatest flower bed was won by Job Tyrrell; the Star Dahlia Gardens also took several prizes. The judges were William Appleton, A. H. Johnson, and W. B. Canning.

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The Horticulturist's Rule-Book. Bailey. Price, 75 cents.

Chrysanthemum Manual. Smith. Price, 40 cents.

The Chrysanthemum. Herrington. Price, 50 cents.

How to Make Money Growing Violets. Saltford. Price, 25 cents.

Dwarf Fruit Trees. Waugh. Price, 50 cents.

The American Carnation. C. W. Ward. Price, \$3.50.

August 28, 1907.

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FLOWER MARKET REPORTS

BOSTON Extreme quiet prevails throughout the flower and plant trade at present. Calls are very light for local use. The demand from out of town is normal for the season, and from the standpoint of the wholesale shipper things are progressing very satisfactorily. There are no carnations in this market. Asters, which were expected to fill their place, are a disappointment, excepting those grown on low damp land, which are superb, while those grown in ordinary locations are shriveled up by the dry weather, which means a serious shrinkage in the summer income of many growers. Of roses there are not sufficient of the higher grade flowers to supply the demand, but there is an unwelcome surplus of third-rate stuff, which nobody wants. Out-door summer flowers generally are miserable. Not for many years has the garden product suffered so severely from drought.

BUFFALO. Business brightened up considerably the past week especially in the line of fancy asters and red roses. The effect of the very dry season on asters is shown in the short stems and small flowers. The best grades have moved well while the short and ordinary were quite plentiful. The new crops of roses are improving daily and the demand for the past week has been for Brides and Beauties. While blooms at the former were small they sold well as not enough Kaisersins could be had. Pres. Carnot, Richmond and Killarney were rather scarce though enough to go around. Gladioli are coming in more abundantly but only mixed colors, and so far have sold readily. Sweet peas are about over while lily of the valley is of excellent quality. Greens of all kinds are plentiful.

NEW YORK The last week of August finds the market unruffled and nothing to indicate an immediate resumption of activity. Of all classes of material there is enough and to spare excepting only cattleyas, which are being called for in quantity by Newport and other summer resorts where gaiety is at its zenith preparatory to the fall scattering. American Beauty roses are improved in quality. Asters are superb as sent in by growers who have kept pace with the wonderful development of this flower in recent years. Blooms rivalling the chrysanthemum in size and finish and with straight stems two feet long are not uncommon. Dahlias are multiplying and some very nice blooms of the cactus type are in the market. The principal occupation of the Twenty-eighth street fraternity and the visitors and customers in the wholesale marts this week seems to be congratulating Mr. Traendly on his elevation to the presidency of the S. A. F. Mr. Traendly's colleagues look upon the honor as one in which the entire wholesale section has a share.

PHILADELPHIA. The chief feature of the market here last week was the marked improvement in the quality of the aster crop. These are now coming in in great variety and abundance and of gilt-edge quality. American Beauty roses are also improving and the gladiolus crop is at its best. Next week we expect good dahlias. Sweet peas are about over. Other crops about normal.

NEWS NOTES.

The Perth Floral Co., Mason City, Ia., lost \$2,000 by fire on August 20.

A new flower store will be opened next month in De Kalb, Ill., by H. A. Vent.

McKenna & Son have opened their branch store in Bennett Theatre, Montreal.

H. Akelman, Montreal, has made improvements to his house, adding also a small side place.

At the greenhouses on the Shaw farm, Belmont, Mass., a chimney 100 feet high is being erected.

Fred B. Worthen of Augusta, Me., has taken a position with the Western New York Nursery Co., Rochester, N. Y.

It is stated that the cranberry crop in Massachusetts has been seriously affected by the continuous drought, and the result will be higher prices for berries this fall.

William Rick proposes to make application on September 10 for charter of incorporation of the Deeds Floral Co., Shillington, Pa., to be capitalized at \$5,000.

H. D. Crosby of the firm of Franklin & Crosby, Brooklyn, Ct., has purchased the Danielson estate in Putnam, and it is reported that he will establish a nursery there.

George Neismeyer of Pittsburg, Pa., while bathing in the city swimming pool, was run down by a steam launch and seriously injured. He was taken to the city hospital.

The premium list of the third exhibition of New York City's Interborough Fair is received. Liberal premiums are offered on cut flowers and plants. The prizes are offered in three classes: professional open to the world, Richmond Borough professional and Richmond Borough amateur, equal to all three classes. Last year's display was so large that it was decided to increase the amount of premiums on dahlias and on display of potted plants. Over \$1,200 in premiums was paid out last year and there will be nearly double the amount to distribute this season.

You will find something worth reading on every page of HORTICULTURE.

Obituary

Thomas J. Johnston.

Our columns recorded last week the sudden death of this genial Providence florist, but there was not time to engrave his portrait for that issue.



THE LATE THOMAS J. JOHNSTON

We present the portrait now, knowing that it will awaken reminiscences in many hearts where Tom Johnston always held a large place. "None knew him but to love him."

Other Deaths.

James Shackell of Bayside, N. Y., born at Bath, England, in 1839, died on August 18. Although at one period he conducted a retail store at Broadway, Fifth avenue and 23d St., New York, the greater part of his time has been spent as a manager of private estates. He leaves a widow and two daughters, one the wife of Joseph Millang of the N. Y. Cut Flower Co.

E. P. Bosworth, a local agent for a nursery company of Rochester, N. Y., was stricken with heart disease at West Derry, N. H., and died almost instantly. He was about 60 years old.

INCORPORATED.

Florists' Album Co., of Boston, has been incorporated, with capital of \$50,000, by S. E. Blanchard, G. N. March, F. N. March.

BUSINESS CHANGES.

C. Bradley of Elwood, Ind., has purchased the greenhouses at Tipton, conducted by Thomas Weakley.

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Am. Beauty, fan and sp.	12.00 to 25.00	12.00 to 25.00	" Ordinary50 to 1.00	.50 to 1.00
" extra	6.00 to 10.00	6.00 to 10.00	Sweet Peas (100 bunches).....	1.00 to 3.00	1.00 to 3.00
" No. 1	2.00 to 3.00	2.00 to 3.00	Cattleyas.....	50.00 to 60.00	50.00 to 60.00
" Lower grades .....	.50 to 1.00	.50 to 1.00	Lilies	3.00 to 8.00	3.00 to 8.00
Bride, 'Maid, Golden Gate, fan & sp	1.00 to 4.00	1.00 to 4.00	Lily of the Valley.....	1.00 to 2.00	1.00 to 3.00
" " " lwr. grds.	.25 to .50	.25 to .50	Asters .....	.50 to 1.00	.50 to 1.50
Liberty, Richmond, fancy & special	1.00 to 4.00	1.00 to 4.00	Gladioli .....	.50 to 2.00	.50 to 2.00
" " " lower grades ..	.25 to .50	.25 to .50	Adiantum .....	.50 to .75	.50 to .75
Chatenay, Morgan, fancy and spec.	1.00 to 4.00	1.00 to 4.00	" Crocenium.....	1.00 to 1.50	1.00 to 1.50
" " " lower grades ..	.25 to .50	.25 to .50	Smilax	8.00 to 12.00	8.00 to 12.00
Killarney, Wellesley, fan. and spec.	1.00 to 4.00	1.00 to 4.00	Asparagus Plumosus, strings....	20.00 to 30.00	20.00 to 30.00
" " " lower grades.	.25 to .50	.25 to .50	" " & Spren. (100 bchs.)	10.00 to 25.00	10.00 to 25.00

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 Hammond's Old English Liquid Putty, \$1.25 per Gal. Hammond's Greenhouse White Paint, \$1.50 per Gal.
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	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	August 20		August 12		August 27		August 27	
ROSES								
Am. Beauty, Fan. and Sp.....	15.00	to 25.00	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00
“ Extra	10.00	to 12.00	15.00	to 20.00	15.00	to 20.00	10.00	to 15.00
“ No. 1	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	6.00	to 8.00
“ Lower grades.....	3.00	to 6.00	2.00	to 3.00	3.00	to 8.00	4.00	to 6.00
Bride, 'Maid, Golden Gate, F. & S. ....	.....	to 6.00	4.00	to 6.00	6.00	to 7.00	6.00	to 6.00
“ “ “ Extra.....	3.00	to 5.00	4.00	to 6.00	4.00	to 6.00	.....	to 4.00
“ “ “ No. 1 & lw. gr.	5.00	to 6.00	3.00	to 4.00	6.00	to 8.00	2.00	to 4.00
Liberty, Richmond, Fan. & Sp.	3.00	to 4.00	4.00	to 6.00	6.00	to 8.00	4.00	to 6.00
“ Lower grades.....	5.00	to 6.00	3.00	to 4.00	3.00	to 6.00	2.00	to 4.00
Chatenay, Morgan, Fan. & Sp.	3.00	to 4.00	4.00	to 6.00	6.00	to 8.00	.....	to 6.00
“ Lower grades.....	2.00	to 3.00	3.00	to 4.00	3.00	to 6.00	.....	to 6.00
Kaiserin, Carnot, Fan. & Sp.	5.00	to 6.00	4.00	to 6.00	6.00	to 7.00	2.00	to 8.00
“ Lower grades.....	3.00	to 4.00	3.00	to 4.00	3.00	to 6.00	.....	to 6.00
Killarney, Wellesley, Fan. & Sp. ....	.....	to 6.00	4.00	to 6.00	6.00	to 7.00	2.00	to 6.00
“ Lower grades.....	.....	to 4.00	3.00	to 4.00	3.00	to 4.00	.....	to 6.00
CARNATIONS								
Fancy and Novelties.....	.....	to 2.00	.....	to 1.50	1.50	to 2.00	1.00	to 1.50
Ordinary .....	.75	to 1.00	1.00	to 1.50	1.00	to 1.25	.75	to 1.00
MISCELLANEOUS								
Sweet Peas.....	.....	to .25	.....	to .25	.15	to .50	.25	to .50
Cattleyas.....	.....	to 50.00	.....	to 50.00	50.00	to 60.00	.....	to 15.00
Lilies.....	8.00	to 10.00	.....	to 10.00	4.00	to 15.00	10.00	to 15.00
Lily of the Valley.....	3.00	to 4.00	.....	to 4.00	3.00	to 4.00	4.00	to 6.00
Asters.....	.50	to 2.00	.75	to 1.00	.25	to 2.00	.50	to 1.50
Gladioli.....	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Adiantum.....	.....	to 1.00	1.00	to 1.50	.50	to 1.50	1.00	to 1.50
Smilax.....	10.00	to 12.00	15.00	to 20.00	.....	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings.....	35.00	to 50.00	to 50.00	40.00	to 50.00	25.00	to 50.00
“ “ & Spreng. (100 bchs.)	to 25.00	20.00	to 30.00	25.00	to 35.00	35.00	to 50.00



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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dysart, 28 State St., Boston.
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Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Adiantum Hybridum, 2-12 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$3.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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Fall delivery. Our stock will please you.
J. W. Dunford, Clayton, Mo.

ASPARAGUS

C. Elzele.

11th and Roy Sts., Philadelphia, Pa.

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F. C. Riebe, Webster, Mass.

Asparagus Sprengerii, 2-14 in.; ready for planting out or into larger pots. \$2.50 per 100; \$20.00 per 1000; 500 at 1000 rates. J. F. Anderson, Short Hills, N. J.

Asparagus plumosus nanus and *Sprengerii*, 2-12 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Elliott St., Buffalo, N. Y.

Asparagus plumosus, 2½ in., \$3.50 per 100; \$30 per 1,000; 3-in., 6c.; 3½ in., 10c.; 4-in., 12c.; 5-in., 20c.; 6-in., 30c. *Comorensis*, 2-in., 2½c.; 2½ in., 3½c. *Cormorensis*, 3½ in., 6c. *Sprengerii*, 2½ in., 3c.; 3½ in., 8c.; 4-in., 10c. J. W. Dunford, Clayton, Mo.

AZALEAS

John Scheepers & Co., 4 and 6 Old Slip, New York.

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The best commercial varieties. J. W. Dunford, Clayton, Mo.

BAMBOO CANES

Stumpp & Walter Co., 50 Barclay St., New York.

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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEGONIAS

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.

Begonia Gloire De Lorraine.

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BOILERS

BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lilies. For page see List of Advertisers.

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Rickards Bros., 37 East 19th St., New York. For page see List of Advertisers.

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Johnson Seed Co., 217 Market St., Phila. Paper White Narcissus. For page see List of Advertisers.

John Scheepers & Co., 4 and 6 Old Slip, New York. For page see List of Advertisers.

H. E. Fliske Seed Co., Fanenll Hall Sq., Boston.

Lilium Harrisii and Freesia Bulbs. For page see List of Advertisers.

A. Mitting, 17-23 Kennan St., Santa Cruz, Cal. Calla Bulbs.

James Vick's Sons, Rochester, N. Y. For page see List of Advertisers.

D. Rusconi, 32 W. Sixth St., Cincinnati, O. Callas, Narcissus, Dutch Bulbs. For page see List of Advertisers.

Peter Henderson & Co., 35 & 37 Cortlandt St., New York. Lilium Harrisii Bulbs.

Wm. Elliott & Sons, 201 Fulton St., New York. Lily Bulbs.

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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind. For page see List of Advertisers.

Chicago Carnation Co., Joliet, Ill. Carnation Aristocrat.

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S. S. Pennock-Meehan Co., The Wholesale Florists of Philadelphia, 1608, 1610, 1612, 1614, 1618 Ludlow Street.

Field Grown Carnations.

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Sheppard Garden Carnation Co., 292 Fairmount St., Lowell, Mass.

Field Grown Carnations.

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Leo Niessen Co., 1209 Arch St., Phila. Field Grown Carnations.

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Paul E. Richwagen, Needham, Mass.

Field Grown Carnations.

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Chas. H. Totty, Madison, N. J. Field Grown Carnations.

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S. J. Reuter, Westerly, R. I.

Field Grown Carnations.

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Carnation plants for sale. J. B. Perry, Waban, Mass.

Strong Field Plants. Variegated Lawson, Daybreak Lawson, \$6 per 100; 300 of each, R. D. Kimball, Waban, Mass.

Strong field plants of Red, Variegated, and Daybreak Lawson, Helen Goddard, \$6 per 100, Harlowarden, \$5 per 100. R. D. Kimball, Waban, Mass.

Field grown Carnation plants: Estelle, \$5 per 100, \$45 per 1,000; Enchantress, \$5 per 100, \$45 per 1,000; Bountiful, \$6 per 100; Nelson Fisher, \$6 per 100; 500 at 1000 rate. Blantsma Bros., R. 11, Grand Rapids, Mich.

I have about 5000 very fine bushy carnation plants which have not been picked over; the varieties are Queen, Fair Maid, Maceo and Enchantress. I will sell them while they last for \$5.00 per 100 and guarantee satisfaction. Wilfred Wheeler, Concord, Mass.

Field grown Carnations, healthy stock, free from disease and stem rot. 1,000 Enchantress, \$5.00 per 100, \$45.00 per 1,000; 2,000 Moonlight, fine white, \$4.50 per 100, \$40.00 per 1,000; 500 Pink Lawson, \$5.00 per 100; 200 Crane, red, \$4.00 per 100. Cash with order. Joe W. Furst, Ray and Harker Sts., Dayton, Ohio.

CHRYSANTHEMUMS

The H. Weber & Sons Co., Oakland, Md. For page see List of Advertisers.

C. Elzele, 11th and Roy Sts., Phila. For page see List of Advertisers.

J. J. Arnold, Homer, N. Y.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2-12 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng. For page see List of Advertisers.

Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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CUT FLOWER BOXES.

Weich Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
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DAHLIAS

David Herbert & Son, Atco, N. J.
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DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$5.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

EVERGREENS

Bay State Nurseries, N. Abington, Mass.
Small Evergreens.
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August Rolker & Sons, 31 Barclay St., New York. Small evergreens.

FERNS

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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmanii.
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Boston Ferns.
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"Amerpohlii."
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Rockland Greenhouses, Rockland, Mass.
Whitmanii Ferns.
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Stumpp & Walter Co., 50 Barclay St., New York.
Ferns in Flats.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Superbissima.

J. D. Brenneman, Harrisburg, Pa. (Box 24).

F. C. Riebe, Webster, Mass.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 228-228-1-3 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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Decorative Evergreens.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa.
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William J. Smyth, Michigan Ave and 31st St., Chicago.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway, New York.
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N.Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 23th and M Sts., Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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GARDENIAS

Stumpp & Walter Co., 50 Barclay St., New York.
Gardenia Plants.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.
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W. W. Rawson & Co., 5 Union St., Boston.
Gladiolus Kathryn.

Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury St., Boston.
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GLASS, High Grade. Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GRADING AND PLANTING

D. Robinson's Sons, Revere Beach Parkway, Everett, Mass.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonaawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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I. Cassidy, 215-21 Randolph Av., Jersey City, N. J.
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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

In writing to Advertisers kindly mention Horticulture

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
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Fancy Ferns.
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L. B. Brague, Hinsdale, Mass.
Hardy Cut Ferns.
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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

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Bay State Nurseries, N. Abington, Mass.
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T. H. Chivers, Amesbury, Mass.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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INSECTICIDES.

Nicotinide kills all greenhouse pests.
P. R. Palethorpe Co.,
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Yokohama Nursery Co., 31 Barclay St., New York.
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Clipper Lawn Mower Co., Dixon, Ill.

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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILACS

August Rolker & Sons, 31 Barclay St.,
New York.
Forcing Lilacs.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new
Christmas flowering plant. Write for descriptive
circular and price list. Chas. H.
Totty, Madison, N. J.

NICO-FUME

Kentucky Tobacco Product Co., Louisville, Ky.
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August Rolker & Sons, 31 Barclay St., New
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Kentia Palms.

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Kentia, Phoenix, etc., all sizes. Write for
new price list. Julius Roehrs Co., Rutherford,
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PAINT AND PUTTY

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice Pansy Plants, Transplanted,
ready September 1; 50c. per 100, \$4.00 per
1000. S. J. McMichael, 142 Larkins St.,
Findlay, O.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Cottage Gardens Co., Queens, N. Y.
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Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

PEONIES—Peony and phlox manuals, 25
cts. each. C. S. Harrison, York, Nebr.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and
Wrought Pipe, Valves, Elbows, Pipe Hooks,
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz.
The Geo. Wittbold Co., 1657 Buckingham
Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POPPIES

Oriental poppies by 100 or 1000. C. S.
Harrison's Select Nursery, York, Nebraska.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

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F. E. Palmer, Brookline, Mass.
Rambler Roses.
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The E. G. Hill Co., Richmond, Ind.
Rose Rhea Reid.

F. Hahman, Harrowgate Lane, Frankford, Phila.

Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

500 Maids, 100 Ivory, 75 Gates, very strong, in 3½ and 4-in. Just right for benching, \$5 per 100, for the lot. Cash. J. W. Dunford, Clayton, Mo.

SEEDS

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Joseph Breck & Sons
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12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Ant. C. Zvolanek, Bound Brook, N. J.
Mignonette Seed.
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Francis Brill, Hempstead, L. I., N. Y.
Garden Seeds.

I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

SMILAX

S. J. Reuter, Westerly, R. I.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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STRAWBERRY PLANTS

For Sale—The President Roosevelt Strawberries are the hardiest and most productive strawberries on earth. \$1.25 per 100, postpaid. Send for catalogue. Alva Y. Cathcart, Bristol, Ind.

SWEET PEAS

Ant. C. Zvolanek, Bound Brook, N. J.
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Celery Plants.
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Grand Rapids lettuce plants, A1 stock, now ready to ship, 20c per 100, by mail; \$1.00 per 1000, by express. S. J. McMichael, 142 Larkins St., Findlay, O.

VENTILATING APPARATUS

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VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

VIOLETS.

5000 clumps California violets, ready now, finest stock in the west, 4 1-2 c. 250 or more at 4c. J. W. Dunford, Clayton, Mo.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellacher's Wire Works, 88-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS**Boston**

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WANTS, FOR SALE, ETC.

Advertisements in this column one
cent a word. Initials count as words.
Cash with order. All correspondence
addressed "care HORTICUL-
TURE" should be sent to 11 Ham-
ilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wide-
awake representative in every town
in the land. Good commissions paid
on advertising and subscriptions. If
you are ambitious, write for terms.

WANTED—A man to take charge of the
growing of Roses, Carnations and other
plants usually grown in a retail estab-
lishment. First class references required.
State wages and experience in first letter.
About twelve thousand feet glass. F. G.
Danforth, Skowhegan, Me.

WANTED—By middle of September,
young man of refinement and good address
as clerk in florist's store in suburb of Bos-
ton. Will be required to purchase stock
and have general charge of store. First
class references required. Address P. O.
Box 3657, Boston, Mass.

SITUATIONS WANTED

SITUATION WANTED: As foreman
where full charge is given. Twenty years
all-round experience both private and com-
mercial. Good grower of cutflowers, pot
plants and nursery stock. 32 years old.
A hustler. Good wages expected. Can
furnish good references. No drinker. Please
state wages in first letter. L. H. Wise,
Summit, N. J.

FOR SALE

FOR SALE—One of the best paying truck
farms in New York state will be sold at
a bargain and on easy terms. 126 acres,
fine buildings, large greenhouse, strawber-
ries, asparagus and rhubarb in bearing.
Best location; 2 1-2 miles from best of mar-
kets. Mrs. C. H. Carr, Saratoga Springs,
N. Y.

A hot water ARCO Boiler capable of
heating 2,300 square feet. Will be sold
at half price. In perfect running order
and guaranteed for one year. Reasons for
selling—too small for our increasing busi-
ness. Address S. S. Pennock-Meehan Co.,
1608-18 Ludlow St., Philadelphia, Pa.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTI- CULTURISTS.

Report of E. L. Pierce, State Vice-presi-
dent for Massachusetts, East.

It is with pleasure that I present
herewith a brief report of horticultural
progress in Eastern Massachusetts dur-
ing the past year.

From my various sources of in-
formation and comparison I cannot re-
port trade conditions as favorable or
as prosperous as in the previous year.

While on the whole the past year
may be considered an average one, the
severity of the past winter and the
lack of sunshine during the early
spring has had a material effect on the
volume of business transacted.

The tightness of the money market
the past year has also affected the re-
tailer as well as the commercial
grower, and both have experienced
some very slow collections, which is a
decided handicap in the conducting of
any business.

Easter coming so early found many
of the growers with their stock not
ready for market while those fortunate
enough to have their blooms ready were
able to realize good prices. Not only
the early date of Easter, but the pre-
ceding weeks of cloudy weather had
a decided effect on the quality as well
as the quantity of marketable stock.

The season for pot-plants and bed-
ding stock was a most backward one,
although I believe more than an aver-
age local crop was grown and in most
cases satisfactory prices realized.

The seed trade, as reported by sev-
eral of the leading merchants, has been
up to former years, although the sea-
son has been a long-drawn-out one.
The season for this class of goods
opened as usual, but the bulk of the
business was done fully a month later
than in previous years.

In perennials and shrubbery the
trade report a decided increase.

The season has seen some changes
in the ownership and management of
several establishments and one or two
new commercial places have made a
start in a small way.

An average amount of new glass has
been erected in Eastern Massachusetts,
and many of the older establishments
have been put in modern condition,
both on commercial places and private
estates, but there has been no par-
ticular boom in this line.

I am justly proud of the Gardeners'
and Florists' Club of Boston, which
now has a membership of over 350, and
today is one of the foremost clubs of
its kind in the United States.

I would especially mention the good
work this club is doing in the way of
promoting harmony and good fellow-
ship among its members, as well as
the valuable information and knowl-
edge obtained by attending its meet-
ings.

The classes in landscape gardening
instituted by the club may be mention-
ed as one of the many opportunities
offered its members.

The outlook in nearly all lines of
business at this time is less favorable
than a year ago, but the prospect for
an average year for the florists is par-
ticularly bright.

?

**Is Your Name In The Above
List? If Not, Why Not?**

MODERN GREENHOUSE CONSTRUCTION.

(A paper read before the Canadian Horticultural Association at London, Ont., by F. R. Pierson.

The question as to the best style of greenhouse construction is a most important one. As our business has widened and developed the same necessity for increased facilities has taken place as in other mercantile lines. The ocean steamer of twenty years ago bears about the same relation to the leviathans that are now being built, as the small greenhouses of twenty years ago bear to the large structures that are now being erected, any one of which is as large and covers as much ground as was covered formerly by an entire establishment comprised of eight, ten or more houses. In the earlier days of our business a number of houses was not only desirable but necessary, but in our business as in other branches of trade, we are fast becoming specialists growing one kind of flowers or plants and these in immense quantities. So as conditions have changed—the size of the buildings has naturally increased. Twenty years ago 11 ft. houses were in the majority, then came the 3-4 span 18 to 20 ft. in width; in fact, fifteen years ago when we built a new range of four iron houses, 20 ft. in width and 300 ft. in length, it was considered a model range and was much in advance of anything that had been built up to that time. Visitors came from everywhere to inspect it. But times change and change rapidly and it has been duplicated to such an extent in the meantime that it has long ago become commonplace. At that time, however, these light houses were much in advance of the houses in general use, but with the increase and growth of the business and as the necessity for larger houses became apparent, came what has come to be known as the "ridge and furrow" open construction.

For economy in construction and returns on the investment these are undoubtedly more economical and profitable than the 20 ft. separate east and west construction. This style has recently been greatly improved in details by the use of light iron gutters, increased height of the gutter line and the use of larger glass requiring less sash bars, the use of light trusses or posts increasing the width of the houses, making an admirable structure and capable of indefinite extension only limited by the quantity to be grown of one product. This style has many champions and fine examples of it can be seen in the immense establishment at Brompton and in other Canadian cities—Toronto, Ottawa, etc.,

and it has been adapted very largely in the vicinity of Chicago where immense ranges have been and are being built. But I believe that the old idea of single separate houses running east and west and greatly enlarged in width is preferable to this type of house; of course, I am speaking from the standpoint of the cut flower grower to whom sunlight in the short mid-winter months of December, January and February is at a premium. For plant-growing, of course, especially palms and foliage plants, the ridge and furrow open construction is ideal, but for cut flower growing, I consider the wide separate east and west house immensely superior, as these houses certainly get much more sunlight especially in the short mid-winter days. In fact this is wherein their superiority exists, and as this is the season of the year when flowers command the highest prices it is of the most importance to the grower that he gets every bit of sunlight that can possibly be secured. Such a season as we have just experienced makes this doubly apparent.

The argument in favor of the construction of the ridge and furrow open construction has been that it costs less to build and for the money expended the results obtained were in its favor, but by increasing the width of the east and west single house this advantage disappears. In contemplating a large addition to our establishment last year, I went into the comparative cost of the two styles and obtained estimates for exactly the same area and while the single east and west house was the very best style of flat rafter steel construction and the ridge and furrow was of the semi-iron construction only, I found there was only 6 per cent. difference on the total investment in favor of the ridge and furrow construction—a difference so small that the variance in one week's crop at the Holidays might offset the entire extra cost. With the question of cost settled, I think the advantages in favor of the single wide east and west house unquestionable; not only is much more sunlight obtained in the short dark mid-winter days when the sun is at its lowest meridian, but much more ventilation can be given; in fact, I have been surprised to see how much is necessary in the coldest mid-winter weather when other houses could be given little if any, of course, this adding to the general health of the plants, giving stronger stems and increasing the quantity of flowers. Take a dull dark winter such as we have just passed through and the importance of this is better appreciated, for it is a well settled fact that the more air than can be given the better for the plants. It is then that the advantages of this type of house is seen at its best. We get better ventilation in these houses in the summer also as the side ventilation is a great advantage, making the houses airy and cool.

Some have thought that these high houses would be difficult to heat. On the contrary, they are much easier heated than the smaller and lower houses. It is not the volume of air

that costs to heat, it is rather the amount of glass exposed to the outside air and there is little if any more exposure in these houses than in the connected ridge and furrow ones. In fact, the larger volume of air in these larger houses cools slower and is subject to much less fluctuations. This large volume of air is also a reason why more air can be given in these houses in zero weather than can be given in the smaller and lower ones.

So far as cost of operation is concerned, I see no advantage in either. The single large house can be built as large as one needs, as large as there is any advantage in. We are building now 56 ft. in width but there is no reason why that cannot be greatly increased if one wishes to—say 75 or even 100 ft. in width, but, of course, the greater the width the higher the ridge would necessarily have to be. In commencing a new range several years ago we started 56 ft. in width and will continue that for the present at least for the sake of uniformity, but there is no other reason for not increasing it, yet little would be gained, for we now get about all the economy in operation possible, the only advantage being a possible very slight decrease in cost of construction.

We have all been interested in the monster house erected this year at North Wales, Pa.—154 ft. in width I believe—and admire the faith and enterprise of its projectors, but I fail to see any special advantage in such extreme size. In this case, in order to avoid an excessively high ridge a very flat roof has resulted which I consider very objectionable, both on account of the liability of drip in rainy weather and also from the lodgement of snow in winter. The roof being so flat I doubt if the snow would slide off of it readily. So while I am advocate of the single wide house there are limitations to be reckoned with, and reasons for not building to such an extreme width. In advocating the single wide house, I speak from experience, as we have several ranges of the most modern and perfected type of ridge and furrow connected houses as well as the large wide separate houses. We are now building the latter type and believe fully and unqualifiedly that they are the best type of house, all things considered, for the cut flower grower. These light airy steel structures with reinforced concrete sides such as we are now building, eliminating all wood work except the sash-bars and ventilating sash, offer little or no obstruction to the light. It is really getting back to first principles and is following out the same principle that the market gardener who is dependent on sunlight only, is compelled to observe in placing his cold frames, so that I think all will agree with me that an east and west house facing south gets much more sunlight than the connected ridge and furrow house. There is an all too prevalent idea among florists that the temperature of warmth is the necessary factor but that this is not so is shown most conclusively in the dull winter days when the growth becomes weak and the plants stop blooming. It is the province of the florist to aid nature and the house that will admit the most sunlight, other things being equal, is the better style of structure.

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New Haven, Ct.—Col. Rutherford Trowbridge, conservatory, 15x24.

Additions.

Palo Alto, Cal.—Flint & Flint, three carnation houses, each 18x100.

East Mansfield, Mass.—B. D. Vickery, house, 200 ft.; A. W. Burt, house, 200 ft.

Tewksbury, Mass.—John Gale, house, 200 ft.

Longueuil, Can.—Mr. Hill, addition, 18x30.

Gardner, Mass.—C. J. Erickson, house, 31x60.

Dover, N. H.—Charles A. Davis, three houses.

LIST OF PATENTS.

Issued August 6, 1907.

862,433. Two-row Cultivator. Silas E. Bailor & Fred M. Ashe, Tarkio, Mo.

862,567. Horse Rake. Henry L. & Edgar C. Litchfield & John C. Harris, Waterloo, Ia. Assignors to The Litchfield Manufacturing Company, of the same place.

862,597. Pusher For Manure Spreaders. Dalton K. Wilson, Gladbrook, Ia. Assignor to William Galloway Company, of Waterloo, Ia.

862,708. Fertilizer Distributer. Edmond N. Camp, Moreland, Ga. Assignor of one-third to Chas. F. Camp and one-third to George Wooster, of the same place.

862,718. Combined Roller, Harrow and Drag. Doras W. Davis, Cheney, Kansas.

862,743. Machine for Removing Insects from Plants. Peter E. Larson, Iola, Wis.

Issued August 13, 1907.

862,977. Combined Plow and Cultivator. William P. LaFollette, New Salisbury, Ind.

863,023. Weed Cutter, Cultivator and Pulverizer. John E. Courtright, Independence, Kan.

863,024. Cultivator and Pulverizer. John E. Courtright, Independence, Kan.

863,273. Draft Mechanism for Plows.

Gilbert E. Gowey and William E. Lees, Gardner, and John G. Bell, Tallula, Ill.

Issued August 20, 1907.

863,632. Garden Rake Attachment. Paul Peterson, Fairmount, Minn.

863,983. Harrow. Fred Gletty, Sheridan, Ill.

863,999. Steam Plow. James Joyce, Jr., Sikeston, Mo.

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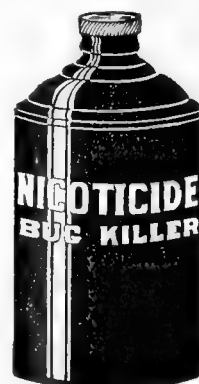
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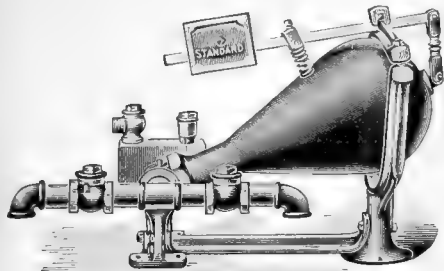


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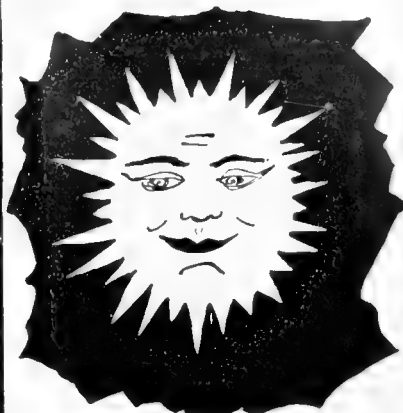


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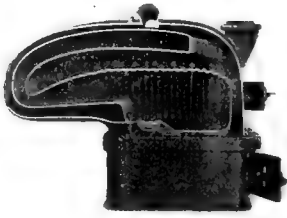
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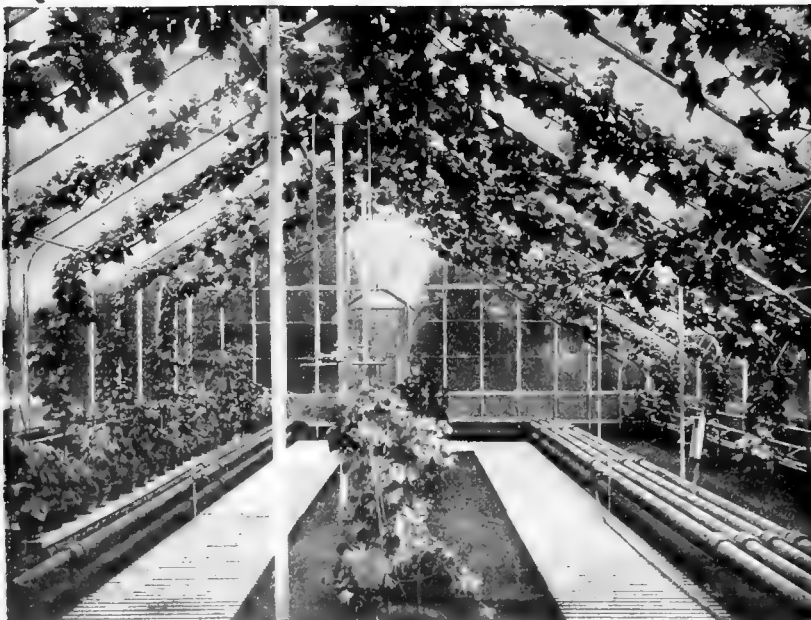
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Horticulture's Advancement

The study of horticulture in the public schools is caught with the most salutary consequences to the rising generations. The promoters and abettors of the science of horticulture are public benefactors, if only for this consideration, but their action is of a still wider scope in its effects upon society.

By improved methods of culture the earth is made much more productive, and by well directed scientific effort new and improved varieties are produced, thus rendering the life of animals more salutary and pleasant. Again, a proper knowledge of this profession makes it full of interest to those who make their living by it and assures success in the results of various operations which, practiced without knowledge of and attention to details, would prove failures.

The scathing article in the issue of HORTICULTURE of Aug. 17, 1907, page 201, was well deserved. "Job" must indeed have needed some education if he failed to appreciate the herculean work of the great Swede who made popular the science of botany and placed horticulture upon a footing it scarcely ever could have occupied without a system of plant classification founded upon the genital parts as a platform. That Linnæus did not make the world more pleasant to live in," is a proposition almost too absurd to notice. He not only made it more pleasant but he did more to add to the intellectual, moral and material welfare of his fellow-men for all time than the hero who sought "the bauble of reputation e'en in the cannon's mouth."

He won a peaceful victory by bringing order out of chaos, and systematizing what must have been utter confusion and making popular a study which by its fascinating problems was well calculated to appeal to the intelligence of its votaries and improve their condition mentally, socially, morally and financially, thus making them better men and women and therefore happier. The leaven soon worked. When Linnæus died in 1768 the species of plants actually described were about 1000 and now they number at least 100,000.

As the study of botany became more general the desire to possess living specimens on the part of the wealthy became also more pronounced. Enterprising professional horticulturists sent collectors into various parts of the world in search of novelties, and many of the tropical plants remarkable for their beauty or some peculiarity of growth graced the hot houses of rich enthusiasts. New tropical fruits and exotic vegetables were also added to the luxuries of the table and many were brought into cultivation, while others, by means of the now rapid means of communication and transportation, are imported in enormous quantities.

The Royal Botanic Gardens at Kew were the first to arrange their specimens under the Linnæan system and give the Linnæan specific names. Sir Joseph Banks contributed large donations of exotics and Mr. W. T. Aiton, gardener to His Majesty George III, edited a

work in 1814, "Epitome of Hortus Kewensis" which is a catalog of the collection under the classes and orders of the Linnæan system with the common name, native country, when first cultivated, time of blooming, whether annual, biennial or perennial, shrub or tree, if hardy or half hardy, greenhouse or stove, if found growing in ordinary soil, bog or water. This collection, started in the latter part of the eighteenth century has been kept up and greatly increased until the present time and is one of the greatest botanical institutions of the world.

The taste for horticulture having been encouraged since the beginning of the last century has progressed by leaps and bounds until it has reached what we may call gigantic proportions and given pleasant and profitable employment to thousands of deserving families. Perhaps there is no better proof of the important stand the science has taken in the community than that it has made the profitable publication weekly of HORTICULTURE a possibility and the enthusiasm and enterprise with which it is conducted a public benefaction of no slight importance to society. Its advertising columns are a continuous record of the great value the culture and dissemination of flowers has assumed in the commercial world.

The great convention of American florists just held at the city of Philadelphia under the presidency of the editor of this periodical is another proof of the ascendancy of floriculture. The addresses delivered on that occasion were well calculated to fill the public mind with a due appreciation of the stand the florists have taken as a body as philanthropists, working not only for their own aggrandizement but for the good of the country.

All sensible citizens will see the advantage of strengthening the hands of the executive in this matter of teaching horticulture in the public schools. The legislators of Massachusetts are to be congratulated for the steps they have taken this summer in providing so liberally to teach the teachers how to teach agriculture, at Amherst, and it is gratifying to note that the movement was so popular with the teachers that more than four times as many attended as was expected. There is evidently a great revival in the love of scientific farming and gardening. Let us keep it up.

Geo. A. Moore

Our Frontispiece

We present as a frontispiece this week a view in the garden of Mr. H. Heaton, an enthusiastic amateur of Amherst, Mass. It well illustrates the value of an open stretch of lawn and is an example of good arrangement which might serve as an object lesson to many planters who fail to keep this essential point in mind. The tree on the right is a red oak. Others will be recognized as weeping beech and Colorado blue spruce.

Japanese Maples

The increased culture of Japanese plants during the last two decades has been most marked in England coincident indeed with the rise of Japan as a world power. And while Japan assimilates western methods, we in turn are indebted for many beautiful products of that fairy land of gardens and flowers. Iris Kœmpferi, lilies, pigmy trees, bamboos, have each had exceptional patronage the last few years. The introduction of Japanese maples was an acquisition to western gardens; they may be said to epitomize a gifted people especially as embodiments of things artistic, rivaling many stove plants and the most delicate ferns in gracefulness of outline and beauty of foliage. The attempt to grow them in England in many districts has been successful and there are few gardens of note without specimens of these beautiful deciduous plants. Prominent nurserymen have taken them up with enthusiasm and the large groups exhibited outside at the Temple show have for years illustrated their utility as decorative subjects. So exquisitely delicate are they in appearance that invariably the first question asked is "Are they quite hardy?" It may frankly be said that many grown for exhibition are brought on in cold greenhouses but that is on account of the early date of showing which hardly gives time for requisite hardness of foliage outside; as cool greenhouse plants in pots they are very effective and admirable as small plants for table decoration. *Acer palmatum polymorphum* may be seen in large plants in a well-known North of England nursery. A few of these were lifted for a London exhibition, the sequel being a large order for specimens to form an avenue for a south country millionaire. It may be safely said they are hardy in the south and in sheltered and favored parts in other districts but the more delicate varieties in the north need protection in severe winters; if in pots deeply plunged a little canvas is all that is necessary. In grouped beds they are effective but as isolated plants with a green lawn as setting their beauty is more sharply brought out, especially as standards. For two months when the foliage is hard they are useful for cutting for table purposes.

With regard to culture they like a turfy loam and if grown in pots, with plenty of rough sand, delighting in water as they do when growing, but abhorring stagnation, syringing should be done in early morning and late afternoon. They like a cold bottom and pot plants must be plunged as a severe drying out is fatal to tender growth. A deep pit with ventilation on top and bottom both day and night is the place to bring them on in early spring, removing outside later. All pot-bound stock may be safely potted at the end of July, dead wood being removed and plants neatly staked.

With regard to propagation, *Acer palmatum* roots freely from cuttings taken in July and placed in gentle bottom heat; large plants may have a boxed bed round them and layered; if small plants are needed of choice varieties, graft them on *palmatum*. The best method with general stock is to inarch them. A house out of the way should be selected, as boxes, bricks, slates,

etc., used to bring them up to proper level, present a somewhat unstable and untidy arrangement for the time being. Varieties do not usually seed freely but this year there is an exceptional crop especially on *Japonicum aureum*. These revert, however, to *palmatum* and *Japonicum* types and make useful grafting stock. Imported plants may be had in quantity from the sales but often it is rough and stunted stock which take some time to get into shape.

There are now a large number of varieties, many of them with difficult Japanese names. The following are a select and representative dozen of form and color in *palmatum* and Japanese varieties: *Acer p. atropurpureum*, dark purple; *p. aureo-variegatum*, dark green, variegated bright gold; *p. dissectum atropurpureum*, deeply serrated leaves, fine purple; *p. dissectum variegatum*, similar to above but variegated rose and white; *p. linearifolium*, seven narrow lobes, light green; *p. roseomarginatum*, lobes deeply cut, light green margined with rose; *p. sanguineum variegatum*, five-lobed, crimson, variegated with bright scarlet, changing with age to white; *p. septemlobum*, seven lobed, pale green turning to red in the fall. *Japonicum aureum*, splendid gold; *j. laciniatum*, deeply divided lobes, light green changing to red in summer; *j. vitifolium*, foliage cut like a vine; *j. pictum variegatum*, large broad leaves, deep green with distinct white variegation.

Edgar Elvire

Overcrowding

The tendency to create botanic gardens on private estates is much too prevalent. The saying that "variety is the spice of life" is accepted as a true one, but when carried to excess as is done in many gardens, particularly under glass, variety becomes one of the most troublesome of burdens. Where subtropical and ornamental foliage plants are artistically used for bedding purposes, they combine well with the ordinary bedding plants, not however in the way we sometimes see them, but rather thinly arranged so that each plant will stand clear of its neighbor.

How often we see stove houses and conservatories with the plants all packed indiscriminately together in a sloping bank with sometimes the larger plants elevated on pots or other material, with the smaller ones all crowded underneath. Thus arranged they may look attractive from a distance, but they will not stand critical examination and cannot be regarded as evidencing either good culture or good taste. Light and air play so important a part in the life of a plant that all unnecessary stock should be dumped. Under glass where over-crowding prevails, troubles are many. Bugs of every description thrive and unsightly pots with the soil half-washed out are often found. On the other hand, when plants are so arranged that each has ample room, health and vigor prevails; better facilities are afforded for accurate judgment in regard to watering and, "last but not least," more harmony is likely to exist between the head gardener and his assistants.

David Miller

British Horticulture

THE BEST SWEET PEAS

The National Sweet Pea Society has rendered a useful service in publishing a list of "too much alike" varieties. With the remarkable multiplicity of new sorts endless confusion has been caused, whilst the seedsmen's lists have reached to unwieldy proportions. After a careful investigation and the conduct of exhaustive trials the Society's Floral committee recommend the following kinds as the best in their respective colors: White, Dorothy Eckford and Nora Unwin; crimson and scarlet, King Edward and Queen Alexandra; rose and carmine, John Ingman; yellow and buff, Mrs. Collier; blue, Lord Nelson and Romolo Piazzani; blush, Mrs. Hardcastle Sykes; cerise, Coccinea; pink, Countess Spencer; orange shades, Helen Lewis and Henry Eckford; lavender, Lady Grisel Hamilton and Frank Dolby; violet and purple, Duke of Westminster; magenta, George Gordon and Captivation; picotee edged, Dainty; fancy, Sybil Eckford; mauve, Mrs. Walter Wright; maroon and bronze, Black Knight; striped and flaked (red and rose), Jessie Cuthbertson; striped and flaked (purple and blue), Sutton's Marbled Blue; bicolor, Jeannie Gordon; marbled, Helen Pierce. The following awards were made at the Reading trials: Saint George (Messrs. Hurst & Son), silver medal and first-class certificate. This was regarded as the best novelty of the year. Helen Pierce (Henry Eckford), first-class certificate; Princess Victoria (Dobbie & Co.), Nora Unwin (Watkins & Simpson), Lord Nelson (I. House and Son), and Prince Olaf (Dobbie & Co.), awards of merit.

NOTED SPECIALISTS

Essex is a famous seed growing county, a large acreage being devoted to this purpose. H. Eckford, of Wem, has now secured a seed farm in the Burnham district. Messrs. Dobbie & Co., of Rothesay, have a very extensive seed farm at Marks Tey, near Colchester, under the direction of Mr. W. Cuthbertson. Here are cultivated a comprehensive selection of sweet peas, including the latest novelties and some new varieties not yet in commerce. The latter comprise Princess Victoria (There is an old variety of this name which has now been entirely superseded); Prince Olaf, which received an award of merit from the National Society, a blue striped variety; The Marquis, a waved mauve of an attractive form; Minnie Christie, a plum-colored waved variety, with wings of a more brilliant tint; Fanna Dale, maroon, described as an improved Othello; White Spencer and Mrs. Ireland, waved bicolor. A variety which has attracted the attention of visitors to Marks Tey is St. George, the novelty being sent out by

Messrs. Hurst & Co. of Houndsditch. This has received the National Society's silver medal as the best novelty of the year. It is of an attractive orange tint, and is regarded as an improved form of Evelyn Byatt. An award of merit was also received from the Royal Horticultural Society at the Holland House show.

A CANNA TRIAL

This season a special feature of canna trials has been made at Wisley at the Royal Horticultural Society's gardens. About 200 varieties have been in cultivation. Awards of merit have been granted to the following by the Floral Committee: C. J. B. van der Schoot, a clear yellow flower, with red splashings and spots; C. Elizabeth Hoss, yellow, with bright red spotting and green foliage; C. Gladiator, described as the best spotted variety in the collection; C. W. Saunders, rosy-crimson with purple foliage; C. William Bofinger orange-scarlet; C. Uncle Sam. Awards were also granted to several varieties under numbers. Most of the plants were grown in pots measuring ten inches in diameter, and a splendid growth had been made. The flowers were an indication of the high standard which has been reached in the cultivation owing to the special attention paid them for years past by leading experts like Messrs. Cannell & Sons, of Swanley, Kent. This firm's brilliant groups of cannas have added an acceptable blaze of color at the leading shows, and have secured for them many honors.

THE NEW ASSISTANT SUPERINTENDENT

From the large number of applicants for the post of assistant superintendent at the Royal Horticultural Society's gardens at Wisley, Arthur C. Smith has been selected. Like many of the most successful gardeners, Mr. Smith received his training in Scotland, where his father was head gardener at Dormont. On migrating southward, Mr. Smith was in the service of Sir John Ramsden at Byram Park, Ferrybridge. He was next engaged in the gardens at Brayton Hall, Cumberland, the seat of the late Sir Wilfrid Lawson. Journeying from north to "sunny Sussex" Mr. Smith secured an appointment at Petworth Park, the picturesque seat of Lord Leonfield. Subsequently he was employed at a number of equally notable places. The new official has, therefore, had a wide and varied experience, and he enters on his new sphere with an excellent record. The new gardens at Wisley afford plenty of scope for a man of Mr. Smith's attainments, and he will be associated with Mr. S. T. Wright, the superintendent, who for many years has rendered such valuable service to the Society, first at Chiswick and latterly at the Society's new Surrey home.

W. H. Adsett.

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terstate trade in these goods is to grow as it should but of even greater importance is the assurance of careful handling and quick delivery. The express companies can, if they are so disposed, do much to foster this class of business. As a general thing we believe that they have done so and many plant and flower shippers have found the officials and employees of the company serving them to be actuated by an earnest desire to please and oblige. Where the reverse is true it is not unlikely that the announced intention of the Postmaster General to inaugurate a parcels post will have a healthy conciliatory effect. Altogether the outlook is most encouraging from whatever standpoint we may view it.

A distinction without a difference

Certain industrious members of the S. A. F. have been struggling with the rather elusive problem of how to bring florist and private gardener together in harmonious and efficient union. To us it appears that the distinction between these two branches of horticultural activity is more in the minds of some people than in fact and this is one reason why the imagined problem is so elusive. If we will only look upon it in the light that there is no breach, that the apparent divergenec of paths is largely imaginary, that the question of whether a gardener gets his living through the sale of his products or the sale of his skill is irrelevant and that the terms "good gardener" and "good florist" are practically synonymous and interchangeable at very short notice, we shall see that all this effort which some of our friends are thoughtlessly making to segregate these two classes is both profitless and unwise. There is rarely an issue of HORTICULTURE that does not mention the change of some private gardener to a commercial basis or *vice versa* and it all seems perfectly natural, for he who is proficient in either, may safely change at will and the man who is limited in any of the essential qualifications for either is weak for the other in an equal degree.

Missionary work at the country fair

These are the days when the country fair flourishes. There is no more democratic institution in the world than the country fair. It caters to everybody, regardless of sex, age, color, temperament, religion, condition in business or society, antecedents or ambitions, and whatever a man, woman or child is interested in the country fair can put it to use. We have often wondered why it is that the florist, nurseryman and seedsman are so conspicuously indifferent to the possibilities of business in participating in these rural round-ups. Everybody goes to the fair and where everybody goes is the place of all places for the enterprising business man looking for local support to show himself and his goods. The floral and plant displays on these occasions are left, as a general thing, to the amateur of the feminine persuasion and are good examples of well-meant but sadly misdirected effort. Instead of holding aloof in a sort of supercilious self-superiority local florists might materially serve their own business interests by an enthusiastic participation in the exhibition and by encouraging through example and advice the horticultural ambitions of the neighborhood. In the occasional instances where this policy has been followed the reward has been ample. More gardens and better gardens are an essentiality to the future prosperity of those who deal in any sort of garden material and all signs indicate that the field is all ready for the missionary.

An encouraging outlook

Now that the United States Express Company have finally removed every vestige of the oppressive flower shipping rates let us hope that peace and harmonious relations may prevail throughout the country between transportation companies and the plant and flower shippers. Low rates are essential if the in-

AFTER ADJOURNMENT.

Our attention has been called to the fact that in our account of the great Holland House show some weeks since we failed to give due prominence to the magnificent display of orchids made by Sander & Sons., of St. Albans. This was the leading orchid display and won the gold medal.

New England, parched and brown from the effects of one of the most pronounced midsummer droughts experienced in many years, is revelling in a welcome rain which bids fair to save the crops, horticultural and agricultural, from the utter destruction which otherwise seemed inevitable. For once, people are taking a wetting without a murmur.

Nicotiana Sanderæ, as we suggested two years ago might happen, proves to be practically a weed in gardens where it has been allowed to ripen seed, the self-sown seed coming up in great quantities and producing flowers in all the varying shades of color found in the species. These spontaneous plants do not, however, come to the blooming period until well along into August.

They are evidently very much in earnest as to the enforcement of "Prevention of Corruption Act" in England, judging from an advertisement which appears in the *Gardeners' Chronicle* stating that the Council of the Horticultural Trades' Association having been informed that secret commissions are being paid in various quarters, a sum of five hundred dollars will be paid to anyone giving such information as will lead to the conviction of anyone in the nursery or seed trades corruptly offering or giving such commission.

The florists, in their convention, have had much to say about a plan for a national flower show. They favored the idea, but there was much difference of opinion as to the proper time of year to hold it, and the subject was finally referred to a committee. That enterprise seems too large to be concentrated at a single time or place. Even the local shows to which Philadelphia has been accustomed for years, could lose some of their chief attractions if held only once a year. The chrysanthemums could not be shown in the spring, nor the bulbous plants in the autumn; while roses from the open air would have to have an intermediate season.

Would it be too great a strain on the fraternity to hold two, or even more exhibitions each year? The growing popular demand for flowers would probably justify them, and they might be held at different places if that seemed desirable. The floral wealth of this country would easily fill a new show every month the whole year round.—*Philadelphia Bulletin*.

Very plausible. About the "strain on the fraternity" we can tell more after we have tried. When we have demonstrated that one can be made a success we can then take up the question of a few more.

BABY RAMBLERS FOR CHRISTMAS.

Editor Horticulture.—Please ask some of your experienced readers the best way to treat Baby Ramblers, so as to have them in flower for Christmas. BARYMORE.

ROYAL HORTICULTURAL SOCIETY
EXHIBITION AT VINCENT
SQUARE.

In spite of the old dictum, the expected did not happen on Tuesday, 20th ult., when only a few exhibitors appeared on the scene and the attendance of visitors was most sparse. Though some might wish to, they cannot be in two places at once so most of our regulars were away, either at Brighton or preparing for the grand fete at Shrewsbury, the last now being the biggest show of any held in the Provinces, while as regards attendance it stands unique, and not only do the railway companies run special trains to it, but they are compelled to meet the rush of traffic to erect temporary stations at points on their lines, running into the old town. On the second day last year no less than 70,000 passed the turnstiles in less than three hours. I should like to say this was all horticultural, but fear that the main attraction is the side shows which collect in vast and noisy numbers in and around the beautiful "Quarry" that, situated on the banks of the devious Severn, forms an ideal show-ground. The roads in the quarry are allavenued by fine old lime trees, some of the finest in England, and the scent of these in July is so powerful that those not accustomed to it are driven from their homes for a time, and the hum of the congregated myriads of bees is so great that it resembles the sound from the pedal pipes of some great organ heard at a distance. The prize schedule is on a very generous scale; to give one instance only, the grapes—the premier prize is a fifty guinea cup, plus twenty sovereigns, and the rest of the prizes for grapes and fruit, are proportionate, while the groups of plants both under canvas and in the open have valuable medals, plus hard cash awarded in a lavish manner. No wonder therefore, that the entries are numerous and that the extent of the benches for fruit alone has been measured up to a quarter mile! But I anticipate, and must leave the report of this monster show till my friend returns and gives an eye witness account of it. Opposite the entrance to the Hall, Mr. H. B. May had what might be termed a bell flower display for it was chiefly made up of campanulas, interspersed with a few choice ferns. He also had a nice lot of shrubby veronicas, well flowered, Eveline, Mont Blanc, and La Marveillance being the most notable. In front of these laid on the baize were piles of *Lapageria rosea* Nash Court yar. Pedestaled by itself in a corner, Major Holford put up a grand piece of *Lælio Cattleya* elegans, on which could be counted over 25 spikes averaging five flowers each, surely worthy of the gilt Lindley medal awarded. In the annex Veitch & Son put up plants of *Cypripedium Rothschildianum* superbians and J. H. Veitch both grand forms while Baron Schroeder had *C. Delense*, and A. de Fairese and Major Holford had six new hybrid *Lælio-Cattleyas*, all very distinct and fine.

A table across the north end of the hall was entirely filled by Kelway, with cut spikes of gladioli. Some extra fine yellows were *Canarybird Leader* and *Golden Sword*; whites, *Snow Queen*, *Mrs. F. Field*; Princess of Sweden soft salmon; *Fireflush* the best dark scarlet; *Dovedale* a lovely white and *Sea Mouse* reproducing the iridescent colors of that singular anemid if it be possible; *Lady McDonald*, richest purple, and *Edward VII*, superb soft red, must complete special notice. T. Ware & Co., put up a fine bank among which was a promising new flowering shrub *Andromeon rigidum*, with open *Monachattum*-like yellow flowers, and acute lanceolate glabrous foliage. He also had *Statice latifolia* alba, and *exquisitum*, all lovely minute forms of this useful sea lavender, and *Chrysanthemum maximum* King Edward—remarkable both for size and substance in the flower.

THOMAS BUNYARD.

NEW ROSES AT THE MANNHEIM
EXHIBITION.

Hrn. Jacobs of Westendorf, who generally shows perfect blooms, brought only his T. H. Gruss Herzogin Alexandra and his Gruss an Sangerhausen, both excellent for cutting and decorating purposes. Messrs. Hoyer and Klemm of Gruna, Dresden, showed the Bengal hybrid, *Charlotte Klemm* (raiser R. Turke of Mussen), a rose of a fiery red tint, good for bedding, that certainly has a great future.

Hrn. R. Turke showed a seedling from Xavier Oliho and Etoile de France, having the color of Gruss an Teplitz; further a number of seedlings of *Schneekönigin*, all of which showed the mother type, but were not her equal. A cross between this variety and *Rosa rugosa* alba was more fortunate, the blooms being single and pure white with the thorns and hardness of *R. rugosa* alba. The production of such a hardy race of Roses should be made the aim of the hybridist. One of the best novelties: *Radium*, a cross obtained from Mdle. Eug. Verdier x *La France*; the color is fiery red similar to *Farbeukönigin*, but the plant has more vigor; Hr. C. Weigand of Soden, showed a seedling from *Caroline Testout*, having coloring of carmine and yellow—very peculiar.

As a result of the unfavorable weather, Hr. Peter Lambert, Treves, was unable to exhibit flowers in good condition. He had in No. 6423 a flower having more carmine in the red than in the case of the variety *Liberty* and in No. 6423 in the bud, as in *Apotheker Hofer*, but more red in the color. No. 6463 had cherry-red buds of great length. No. 6465—*Caroline Testout* x *Kaiserine*—had the Jacqueminot tone, and all of these were of the Tea Hybrid class.

M. M. Soupert and Notting showed in the T. H. Madame J. W. Pudde a velvety cherry-red rose with a carmine tone and moderately full bloom, which promises to be a good rose for cutting in the autumn. No. 7 is a Tea Rose, the result of a cross between *Souvenir de Pierre Notting* x Mdle. M. Salvati, a pure light sulphur-yellow, and the only clear colored yellow rose worth mentioning.—*Horticultural Trade Journal*.

NEWS OF THE CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

The following letter from the counsel of the United States Express Company to the Secretary of the Interstate Commerce Commission, a copy of which has been received by the President of the Society, is self-explanatory.

New York, August 23, 1907.

Mr. Edward A. Moseley, Secretary, Interstate Commerce Commission, Washington, D. C.

Dear Sir:—We received your letter of August 21, 1907, enclosing letter from Wm. J. Stewart, President of the Society of American Florists and Ornamental Horticulturists. Mr. Stewart complains that the United States Express Company has restricted the effect of the Commission to the points named in the complaint.

We regret to say that although the question was taken up some time ago, and although the officers of the Company decided, in order to be perfectly fair, that the new rates should not be confined to the points in question, but should be extended throughout the territory involved, at points similarly situated, through a misunderstanding and oversight the new rates were not put in to effect.

As soon as we received your letter we took the matter up with the Traffic Manager, and found that through a misunderstanding he was awaiting some word from us before changing the rates. We regret very much that this has happened, for we can assure you that the Express Company did not intend to interpret the meaning of the Commission's order in a narrow manner.

We think that Mr. Stewart's suggestions are being entirely covered; if, however, his attention is called to any specific instance where the rate is not, in his opinion, according to the spirit of the Commission's order, we will have the matter adjusted if he will call our attention to it.

We return the enclosure herewith, and wish to thank you for thus calling the matter to our attention.

Yours truly,

O'BRIEN, BOARDMAN & PLATT.

This disposes finally of the controversy which has been extended over the past fifteen months and should place the United States Express Company in a most favorable light in the estimation of the flower-shipping trade. The position taken by the Company is at once eminently fair and cordial.

WM. J. STEWART, President,
P. J. HAUSWIRTH, Secretary.

Department of Plant Registration.

M. H. Walsh of Woods Hole, Mass., submits for registration the following Rambler Roses.

Walsh's "Poesy," color clear dark pink; base of the petals fading to pure white; distinct; tree flowering, strong grower; flowers borne in large clusters and hanging gracefully on the plant. This variety raised in Woods Hole in 1901.

Walsh's "Coquina," beautiful shell pink; lower half of petals creamy yellow; foliage glossy ivy green; profuse bloomer; single flowers.

Walsh's "Cinderella," beautiful dark rose; flowers double, borne in immense clusters; shoots bearing from sixty to one hundred blooms; when fully developed, flowers assume imbricated form and change to a lovely shade of light pink; one of the latest of the Rambler class to flower.

Walsh's "Delight," single flowers; intense carmine tipped with scarlet; lower half of the petals white; most profuse bloomer; flowering from every

bud on each shoot; foliage dark glossy green and a grand forcing rose.

Walsh's "Evangeline," single flower; two inches in diameter; large bronzy glossy green foliage; most vigorous grower; deliciously fragrant; color soft pink and white, suitable either for climbing or creeping in parks or shrubberies.

Walsh's "Paradise," single flowers; borne in large clusters; hardy; profuse bloomer; fragrant; petals, lower half white; upper half, pink; when fully developed the petals recurve to a sharp point forming a perfect star; centre filled with yellow stamens.

Prize Essays.

On account of the short time intervening between the publication of Mr. Murray's offer and the meeting of the Society, the Executive Committee have extended the time to September 30th.

Samuel Murray, of Kansas City, offers two prizes of \$30 and \$20 for the following essays to be presented by Sept. 30th. "Comparative Worth in the Community and to Horticulture and Floriculture."

First: The man who is a gardener and florist, having a store and conservatory in the city, conducts a high class business: has greenhouses in the suburbs; grows plants and cut flowers for his store; has a good business in spring bedding plants and does all in his power to increase the sale of hardy perennials, setting forth to his patrons on every occasion possible the beauty and charm of the hardy flower garden plants, shrubs and trees and bulbs in the fall.

Second: The man who conducts a store, and conservatory in the city, has a high class business, but does not have any greenhouses, buying all his plants and cut flowers at wholesale.

P. J. HAUSWIRTH, Secretary.

FLORISTS' CLUB OF PHILADELPHIA.

The feature of the monthly meeting of this Club was an address by Charles E. Meehan on "The Philosophy of Wholesaling". Mr. Meehan handled his subject in an able manner as will be seen from a perusal of his address which will appear in full in an early issue. Samuel S. Pennock and Fred Hahman were nominated for president for the ensuing year. The election takes place first Tuesday in October. Edwin Lonsdale and David Rust are slated for secretary. May the best men win. It is a healthy sign to see some rivalry for the respective offices. A resolution of sympathy for Joseph Hearcock on account of his recent bereavement was passed. Four new members were elected and three nominated. Robert Craig and Edwin Lonsdale spoke on the forthcoming national flower show in reply to some criticism by Adolph Fahrenwald. The ladies, bowling team headed by Miss Graham attended the meeting and took occasion to present to the club the cup they won in the convention contest. Captain Lynch favored the company with a song at the wind-up and light refreshments were served.

NEW BEDFORD HORTICULTURAL SOCIETY.

The free exhibition given under the auspices of this society in Odd Fellows Hall, during Tuesday, Wednesday and Thursday of last week (Old Home Week), received such extensive patronage as seldom falls to the lot of a provincial flower show. It is perfectly safe to say that half the time the exhibition was open, the hall was practically filled with visitors; while during Tuesday afternoon and evening the doors were kept closed and opened only to admit visitors as others made their exit. Great credit is due to Messrs. J. Garthly, W. Keith and H. A. Jahn who have worked untiringly and contributed freely of their stock in the effort to make the exhibition a success.

The cut flower part of the show was essentially an exhibit of dahlias which, owing to the early date and the grievous conduct of the weather office, was not quite up to the usual standard. Mrs. H. A. Jahn made an extensive showing and carried off the main part of the premiums in the open classes. James Garthly was awarded a silver medal for a plant of *Nephrolepis-Todeaoides*, also first premiums for group of foliage plants, group of ferns, specimen palm along with several other premiums. The groups and specimens palms and ferns formed very attractive features.

Wm. Keith of New Bedford also captured first premiums for group specimen fern and specimen cycas. Mr. Keith also had on exhibition a group which claimed a good share of attention from the visitors; consisting of a banana, orange, lemon and pine apple all in fruit.

R. & J. Farquhar & Co. contributed a bench of *Lilium auratum* and other lilies, also a bunch of Scotch heather which was of much interest, for which a bronze medal was awarded. W. W. Rawson & Co., of Boston, exhibited about 200 fine dahlia from their Marblehead farm. Exhibits of gladioli and aquatic flowers from H. A. Dreer and a fine collection of gladioli from J. Lewis Childs were generally much admired.

The judges were James Farquhar of Boston, and W. C. Winter of Mansfield.

NORTH SHORE HORTICULTURAL SOCIETY.

The annual summer show of this society was held August 28-29, at Manchester, Mass., under perfect weather conditions. The exhibition was adjudged to be the best ever held by the society. The judges were Julius Heurlin, George Gordon, and Chas. Simpkins.

The exhibit of annuals in competition for the Schlegel & Fottler silver cup was exceptionally good the cup being won by Fred Brasch, gardener to Mrs. James McMillan, with H. Shaw, gardener to Mr. Gardner Lane, second.

The special prize classes brought out fine exhibits and close competition.

Henry A. Dreer, Philadelphia, had an exhibit of aquatics, *Nephrolepis*

merpohlii and *N. Todeaoides*. Lager & Hurrell, Summit, N. J., had a fine collection of orchids. W. W. Rawson Co., showed dahlias, and B. Hammond Tracy made a good exhibit of gladioli, mostly seedlings.

F. R. Pierson Co., Tarrytown, N. Y., staged their beautiful *Nephrolepis superbissima*. Blue Hill Nurseries showed a collection of seedling perennials.

John Reilly, gardener for Mrs. M. B. Mason took many first prizes including five for asters. Bernard Reilly, gardener for Miss Bartlett, also had a big bundle of firsts as also did A. Magnusen, gardener for George N. Black, whose fern won first place as specimen plant. Wm. Swan won the Lord & Burnham cup for display of plants, the special Mitchell prize for collection of fruit and the Crafts prize for phloxes. Mrs. Leland got the Roberts & Hoare silver medal and Schlegel & Fottler special for suberous begonias. J. J. Middleton won the Thos. J. Grey prize for sweet peas. The Farquhar cup for collection of vegetables went to Mrs. Gordon Abbott, the White cup for collection of vegetables to Mrs. Phelps Dexter and a number of lesser special premiums were variously won.

Certificates of merit were awarded as follows:

Lager & Hurrell, Summit, N. J., for collection of orchids.

F. R. Pierson Co., Tarrytown, N. Y., for *Nephrolepis superbissima*.

Henry A. Dreer Co., Philadelphia, for aquatics, and also for *Nephrolepis Amerpohlii* and *Nephrolepis Todeaoides*.

W. W. Rawson, Boston, for collection of Dahlias, and also for *Gladiolus Harvard*.

Blue Hill Nurseries, South Braintree, for collection of seedling perennials.

B. Hammond Tracy, Wenham, for collection of Gladioli.

GARDENERS' AND FLORISTS' CLUB OF BOSTON—A FIELD DAY.

Saturday, August 31, furnished another in the series of enjoyable outings which have afforded so much pleasure and instruction for the club members. The trip this time was to the Bay State Nurseries at North Abington on invitation of the proprietor, W. H. Wyman. Mr. Wyman met the party at the railroad station on arrival and there were enough to fill two big vans besides sundry smaller vehicles. The visitors were first conducted to the restaurant where a good dinner was enjoyed and then the afternoon was passed in visiting and inspecting the three large tracts now being operated by Mr. Wyman and the storage and packing sheds and other appurtenances of a modern nursery business. Not only were enterprise and thorough business methods evident on every side but all were impressed with the adaptability of this section for nursery purposes as was well demonstrated in the luxuriant green and healthy vigor of everything at a time when in most sections of New England, grass, foliage and flowers are brown and withered from the effects of the long-standing drought. Especially in the case of evergreens was the congenial character of soil and environment well evidenced. The her-

baceous grounds, many acres in extent, brilliant with color, were also admired for the luxuriant health of everything. At the close appropriately enthusiastic thanks to Mr. Wyman for the pleasant occasion were vociferously voiced.

FRUIT GROWERS MEET.

Three hundred fruit growers were present at the joint meeting of the New York State and Ontario County Fruit Growers' Associations, at the New York State Experimental Station, August 28.

Charles K. Scoon, one of the prominent fruit growers of Ontario county, made the address of welcome. He alluded to the fact that while the country around the Experiment Station was not the largest fruit growing district of the State yet it had large fruit plantations and extensive nursery interests, which in connection with the Experiment Station made it a place of special interest to the fruit growers. Speaking of the Station he said that the institution had much to show of interest to the fruit grower and that the men on the staff of the institution were really the servants of the public and that if the fruit growers and other farmers had no questions to ask them they would have nothing to do. J. R. Cornell of Newburg, president of the New York association responded.

The first address on the program was on "Plant Breeding and its Importance to Fruit Improvement," by Dr. H. J. Webber, professor of Experimental Plant Biology at the State College of Agriculture, Ithaca. Dr. Webber reviewed the entire subject of plant breeding and told the fruit growers that it was not necessary to be a Burbank to accomplish something in the development of new varieties of plants. "There is nothing secret," said Dr. Webber, "in plant breeding. It is simply an interpretation and application of natural laws and these laws are so simple that any one can understand them. All plant breeding is based upon the fact that all individuals are different. In the human family individuals are all different and this is just as true among plants. This fact has been taken advantage of in the development of the tomato and the sugar beet. In the case of sugar beets they select the plants with the largest sugar content and breed from them. These men have simply taken advantage of individual characteristics and breed the plants in such a way as to develop same."

In connection with his address, Dr. Webber exhibited a number of varieties of Timothy hay, which was of marked interest to the audience, as it was generally supposed that there was only one variety of Timothy.

The next address was by Prof. N. P. Hedrick, horticulturist at the Station, on the "Hardiness of the Peach," in which he gave results of an investigation along that line conducted by him in Michigan and New York. The data has wide practical value to the growers of peaches.

The session was concluded by an address by P. J. Parrott, entomologist at the Station, in which he explained the work the Station was doing and called attention to a number of things that would be of interest to the fruit growers.

H. R. PEACHEY.

HARDY SHRUBS—PLANTING AND TREATMENT.

A paper read by S. C. Moon, Morrisville, Pa., before the Society of American Florists.

Acknowledging without much preamble the distinguished compliment of being invited to address this intelligent audience, on a subject with which you are already familiar, I will assume that we all understand, by the term "hardy shrubs," the class of perennial bushy plants, deciduous and evergreen, though largely deciduous, which are used for ornamenting lawns and gardens. Though mostly of moderate size when planted, some of them eventually attain the proportions of small trees. The term hardy will vary with the location of the planting, but will not materially affect the suggestion here presented. How to plant them will be considered in a two-fold light. First, the distribution and arrangement of the plants on the lawn, and second, the method of setting the roots in the ground.

As a general rule, the most effective way to plant shrubbery is in masses with not too much variety in one group. Prof. Bailey says: "The shrubbery masses should be placed on the boundaries; for it is a fundamental concept of landscape gardening that the centre of a place shall be open. In most places the mass or border planting should be the rule and the isolated specimens the exception; but unfortunately the rule is usually reversed." It is easy to see conspicuous evidences of the truth of the above statements in almost any suburban neighborhood in examples of good and of poor arrangements. (See our frontispiece.)

Many planters seem to think it desirable to have a well developed plant, of as many varieties as can find accommodations on the lawn, in order that they might enjoy each plant individually as it passes through its varying changes of foliage, flowering, fruitage and leaflessness throughout the year. Such an arrangement may be appropriate for an arboretum or trial grounds, and there are special charms in such a collection of shrubs as each successively comes into bloom. But as the blooming period of most shrubs is only from two to four weeks, the beauty of foliage hues both in the greenness of summer and in autumn foliage, such as that of the golden elder and philadelphus, variegated weigela, purple-leaf plum and barberry, etc., is considered done very effectively, but more frequently the result is a conspicuous blotch amid the verdure. The handling of bright colors always requires a high degree of artistic skill or the result will be displeasing to the most refined tastes; it may afford valuable object lessons to the student and gardener but it is not the way to produce the most effective results in lawn adornment.

To quote again from Prof. Bailey's essay on shrubbery: "Plants scattered over a lawn destroy all appearance of unity and purpose in the place. Every part of the place is equally accented. The area has no meaning or individuality. The plants are in the way. They spoil the lawn. The place is random. In large grounds the shrubbery border should be composed of successive masses of several plants

of one species together, followed by another harmonious group of another sort, the border of the two groups interlacing with each other, making a natural and easy transition from one variety to the other. Let the transition from one variety to another be gradual, not too sudden, and let the groups be not too large or too exclusive. An odd plant taller or different from the others may occasionally stand out or above its companions, very effectively; of course tall growers at the back flanked with smaller and low branching species in the fore. It is not advisable to mix evergreen and deciduous shrubs in the same group. A few shrubs seem to be admirably adapted for filling in plants. *Tamarix* is one of these which may often be used to relieve a too monotonous sky line, or formality or to add variety in foliage effect, it being a tall, neat, inoffensive plant which will harmonize with almost any other. For low drooping shrubs to be used for carrying foliage from the grass lawn up to taller plants, few are more effective than *Spirea Thunbergii*, *Stephanandra*, *Rhodotypus* and *Berberis Thunbergii*.

Shrubbery Outline.

The outlines of shrubberies should not be too straight or formal, but irregular and natural. A skilled florist or gardener should almost conceive these ideas without instructions, but definite knowledge of the habits of the different shrubs to be employed is essential to enable one to make a planting which will develop consistently as they increase in age and size. That such information can only be obtained by observation and experience is evidenced by the very large number of inharmonious combinations that are seen in shrubberies all about the country. Probably rhododendrons are treated injudiciously and are a source of dissatisfaction and of waste of money more than any other shrub, largely through misunderstanding. Rhododendrons are sociable individuals, liking the companionship and protection of other plants. Their fine fibrous roots delight in cool, moist soil, but do not want to go very deep in earth to find these conditions, and are particularly sensitive to excessive heat or drought in midsummer. A situation where the shadows of large trees or buildings will shield from midday sun in summer and winter and from severe winds is an ideal position. A perpetual mulch of leaves renewed each autumn and with a light coat of stable manure on top of the leaves, to keep them from blowing away, is most congenial to them. Mulching and shelter from wind are the most essential conditions.

One of the most satisfactory plantings of rhododendrons was a small bed at the south corner of a residence. They were wanted in this position but the owner had been told that they would not succeed in southern exposure. Recognizing the fact that a large pear tree southeast of this bed would afford midday shade, and groups of large forest trees and neighboring buildings not far away would afford shelter from wind, the location was considered eligible. The natural soil was quite sandy—brought by generous excavation, two feet deep, and filling

with muck and vegetable mould taken from open ditches on a nearby farm, and a few barrels of Jersey peat, a soil was prepared which proved suitable. The rhododendrons were planted four to five feet apart and all vacant spaces filled in with *Mahonia aquifolia*, *M. Japonica* and *heath arborvitae* (*Thuya ericoides*) until the bed was a solid mass of foliage, effectually shading the stems of the plants and the ground around them. The ground was then covered with a mulch of leaves a foot deep, with instructions to keep the mulch there all the time, renewing it every autumn, and as the rhododendrons grew and spread, that the nurse plants should be cut back or removed. This planting was made nine years ago and has been successful.

Shrubs for Small Gardens.

A most difficult problem in shrub arrangement, more frequently met with in the practical experience of florist and jobbing gardeners than in the laying out of large lawns where general rules of landscape gardening might be employed, is the requirements of owners of small yards, who want one dozen of their old favorites set in a bed or along a garden fence. Perhaps it will be a lilac, forsythia, snowball, cydonia, weigela, spirea, deutzia, chionanthus, dogwood, hydrangea and a purple filbert and such other incongruous neighbors. He who can arrange such a group as this tastily and so it will continue attractive throughout the year is a master in the art of shrub arrangement. Hopeless as this task may seem there are plants which we may always look to for help in such emergencies. The slender sprays of feathery foliage of the tamarix, the gracefully drooping branches of *Spirea Thunbergii*, *Stephanandra flexuosa*, the single flowered *kerrias* including the white form known as *Rhodotypus kerrioides* with its crinkled foliage, are all gentle, inoffensive subjects willing to help fill up a gap and hide from public gaze the awkwardness of their fellows wherever such service is needed. By adding a few plants of these slender species the stiffness of a group may be much relieved and some of its awkwardness softened.

One of my most valuable lessons about planting was learned in walking through a lawn with an old gardener who remarked, "The man who planted this place understood his business. See—every tree is set on a little hill or mound." The next time you have opportunity, compare the difference in appearance of a lawn where trees and shrubs stand in mounds slightly above the level of the surrounding lawn, and other plantings where the lawn level is carried up to the roots of the plants, or as is sometimes seen, where plants stand in a depression. See which you like best, and then judge of the wisdom of the above suggestion. A bed or border for shrubbery should be heavily manured and dug or plowed deeply and prepared as carefully as for corn or any other crop which is wanted to grow well. If I tell you not to run the roots into a little hole in the ground but to set them on a little mound, you will think I am joking, but that is pretty nearly what I mean.

It would seem as though every gardener should be tired of bearing the

trite advice to dig big holes for shrubs and trees, but the innumerable evidences of violations of the rule show that many planters have not yet learned this lesson. Some shrubs, as forsythias, spiraea, deutzias, etc., may flourish if stuck in the ground any way, but many others need the best of care to insure success, and carelessness in setting often discredits good material and a job which in other respects may be all right. Dig holes larger and deeper than the roots require and larger in diameter at bottom than at top, then fill in some of the best soil obtainable, making a little cone or mound in the centre of the hole. Then spread out the roots of plants around this mound of earth so that all roots tend downwards rather than horizontal or upwards. Fill in the richest soil, first tramping firmly as the filling proceeds. Remember Peter Henderson's chapter on the "Use of the Foot in Planting." Also bear in mind that it is results that count and five minutes spent in care of planting may mean one or two years saved in attaining the desired end.

Under the heading "How to Treat Shrubs" I will allude to manuring, mulching and pruning. After planting apply a good mulch of manure to conserve moisture, furnish nourishment and suppress weeds. An annual mulching of leaves, with coarse manure to prevent their blowing away, is beneficial to almost every class of plants, and mulched or fallow ground is better than grass around the stems. Most deciduous shrubs should be pruned severely, when planted. Rhododendrons, azaleas, andromedas, etc., are usually transplanted with balls of earth, and do not need much pruning but, where it is needful, will not hurt them.

Pruning.

The annual pruning is a most important part of the work of the care of shrubbery and the point most difficult to give instructions on by written directions. It is an art which must be learned by practice and observation. The general rule is to trim early bloomers, as soon as they are through flowering, and midsummer or late bloomers, in winter, contains a suggestion, but the indiscriminate cutting back of every shrub every year is a great mistake. When a shrub seems weak and needs strengthening, cut out declining shoots and apply manure around it. When one is too vigorous and rampant remove or shorten superfluous shoots and reduce to symmetry with as little mutilation as possible. When one has become overgrown and dilapidated in appearance, cut back a part, or perhaps all, of its unsightly stems, severely, probably at the ground, and allow new shoots to restore the beauty and vigor of youth.

The only way to learn the art of trimming shrubbery is by observation and practice and the exercise of judgment. A safe general rule is that whenever you see a twig or branch which needs removing, cut it off on sight, regardless of time of year or other conditions; and when you don't see anything that needs removal, don't prune it, regardless of rule or custom, and for a negative rule, never shear a shrub with a hedge shears. The shearing of lawn shrubs into bald patches,

suggestive of convicts or sheared sheep, displays ignorance of plants and depravity of taste. To the last general rule I make exception for topiary gardening—but the creation and care of topiary gardens and of formal specimens is a special art for which all of the above suggestions would have to be modified. If my feeble sentences may be suggestive of useful afterthoughts in your minds and in mine, they will have accomplished all that I can hope for them.

CLUB AND SOCIETY NOTES.

The Fairlawn Improvement Society, Providence, R. I., hold their annual flower show on Sept. 7 and 8.

The New Hampshire Horticultural Society will for the first time hold its annual meeting in Exeter in October.

For the State Fair to be held in Wheeling, W. Va., on September 9-13, one of the attractions announced is the exhibition of dahlias from C. Betscher of Canal Dover, Ohio.

The committee having in charge the fall chrysanthemum show of the State Floral Society to be held at Little Rock, Ark., in November report that \$550 in prizes have already been secured.

The Huntington Horticultural and Agricultural Society will hold its fifth annual fall show on September 26. Liberal cash premiums are offered. Schedule of prizes may be had on application to A. H. Funnell, Sec., Huntington, N. Y.

Choice Ornamentals

20,000 Berberis Thunbergii, 18 to 24 inch.
5,000 " " 12 to 18 "
40,000 " " 2 yr. seedlings, 8 to 15 inch.
20,000 Vinca Minor (Grave Myrtle).
8,000 Red Oak Trees, 4 to 6 ft.
12,000 Cherry and Plum Trees, 1 yr., 3 ft.
40,000 Norway Spruce, White, Austrian and Scotch Pine, 1 yr transplants, 6 to 12 inch.
1,000 White Pine, 12 to 18 inch. transplants.
2,000 Norway Spruce, 12 to 18 inch. transplants.
1,000 Viburnum opulus, 2 ft.
1,000 Viburnum dentatum, 2 ft.
1,000 Rhodotypos kerrioides, 2 ft.

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"OUTLANDER" "TAFT" "ST. LOUIS PRIZE" "PRINCESS ENA" "FUJIYAMA" "PHIL KRATES" "BATTENBURG" and "GOLDSBOROUGH." New, and the best in their class.

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DAHLIA SHOW AT BOSTON.

The dahlia show at Horticultural Hall, Boston, this week is unquestionably the finest exhibition of dahlias ever given in America. With the exception of a few exhibits of other seasonable flowers the entire space of the two large halls and the loggia has been given over to the dahlia groups thus affording abundant room for staging, which has been done to perfection and for the visitors to move about with freedom.

The provisions of the prize schedule for the various classes of blooms have been well taken advantage of, the entries in all classes being numerous and the quality of the flowers throughout is remarkable for uniformity of size and poise while much good taste has been displayed in the arranging and contrasting of colors. The sensation of the show is A. H. Wingett's Charles Lanier a four-year-old seedling of enormous size and vigor, deep yellow in color, which may be appropriately described the Col. Appleton of the dahlias. The flowers, which came in excellent condition all the way from Lenox are shown in one of the large vases occupying the centre of the stage in the lecture hall.

Without going into details of the many exhibits we should especially mention the long table contributed by W. V. Rawson Co., which is an excellent example of the decorative possibilities in dahlia staging. Tall vases filled with long-stemmed flowers in masses of color occupy the centre of the table; these are flanked by lower vases and the whole is bordered with single blooms shown in the usual manner, there being nearly 3000 flowers in the entire exhibit. This display is a great relief from the monotony of the other tables with their thousands of individual blooms arranged with mathematical precision.

Sidney Hoffman makes the first attempt at a public demonstration of the uses of the dahlia in floral work, with a large table centre piece of long-stemmed scarlet and purple cactus dahlias, a large wreath of pure white blooms of several varieties and a handle basket of huge pink blooms.

As above mentioned all classes of dahlias are well represented but the greatest interest of the growers seems to centre in the show and decorative sections, the latter especially being shown in far greater number than ever before and blooms from six to eight inches diameter are plentiful. The cactus class is also shown in marvelous perfection but new or sensational varieties are not as frequent as in the previously mentioned classes. The pompons barely hold their own and the singles are shown only in moderate numbers, the only advancement apparent being in the number of varieties of the 20th Century type.

Outside of the dahlias there are a number of other displays worthy of notice. J. Heurlin's long table of hardy herbaceous flowers shown so admirably and plainly labelled with interesting information cannot be passed without a word of commendation. The wonderful development in the gladiolus as shown in the sensational display of B. Hammond Tracy is a revelation as to the possibilities with the Nanceianus combinations of Dracocata, Gandavensis and Sandersoni

MICHELL'S FLOWER SEED SPECIALS**MICHELL'S GIANT CYCLAMEN**

Grown for us by one of the leading growers in Europe and cannot be excelled for size of bloom and richness of coloring.

	100 seeds	500 seeds
GIGANTEUM WHITE	\$0.75	\$6.00
" PINK75	6.00
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NEW BABY SMILAX

Of delicate and handsome appearance; the individual leaves are much smaller than the regular Smilax; as graceful as the Maiden Hair Fern. A rapid grower, and produces many more shoots than the old.

NEW CROP

25 seeds	\$0.75	250 seeds	\$5.00
50 "	1.25	500 "	9.50
100 "	2.25	1000 "	18.00

Our Fall Price List of Bulbs Now Ready

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A SWEET PEA QUARTETTE.

Snapshot of (leading from left to right) Robert Sydenham, sweet pea specialist, Birmingham, Eng; W. Atlee Burpee, Philadelphia; Alfred Watkins of Watkins & Simpson, London, England; and Wm. Cuthbertson, of Dobbie & Co., Rothesay, Scotland—taken on the trial farm of Watkins &

Simpson, Felton, England, July, 1907.

(This picture is especially interesting in connection with the sweet pea review in our issue of August 17, 1907—which see. Mr. Burpee has returned with a full honey bag from his European trip, and we hope to get our share of it soon.)

blood. Several of Mr. Tracy's seedlings vie in beauty with the best of the Lemcine productions. R. & J. Farquhar & Co., make a superb display of lancifolium, auratum and philippense lilies that fill the hall with fragrance.

A handsome group of greenhouse plants from Mrs. J. L. Gardner occupies the further end of the large hall. A dozen specimens of Clerodendron Fallax with their showy heads of vermillion bloom are brilliantly effective.

The fruit and vegetable display is not large. E. L. Lewis and Ed. Parker are each represented by fine collections and Wm. McAllister, gardener for Mrs. J. C. Whitin, is the only competitor in the hothouse grape class. In his collection the new Diamond Jubilee attracts much admiration. Thos. T. Watt, gardener at Wellesley College, shows some fine celery remarkable from the fact of its having been grown on light gravelly soil with the addition of leaf mold and fertilizer.

BAMBOO CANES TOUGH AND STRONG

6 ft. long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO., - 50 Barclay St., New York

SEED TRADE.

Mr. Earl of Burpee's, Philadelphia, started for California on August 25 to review the onion and other late crops.

Wm. B. Hughes and Augustus Vogeler of Salt Lake City are about to start in the seed, produce and commission business at Twin Falls, Idaho.

The sweet pea trade is reported as booming. The American and European demand are alike brisk and some of the leading stocks are already cleaned out.

At a meeting of the directors of the Dakota Improved Seed Co. on August 14, it was decided to postpone the completion of their seed house until the spring.

Advices from Germany indicate poor outlook for flower seed crops on account of cold rainy weather during June, July, and August. Prices there will undoubtedly be higher than last year.

With the exception of meadow fox-tail, which promises a larger yield and somewhat easier prices, every other European grass seed has given a shorter, in certain cases even far shorter crops, and higher prices than last season are sure to prevail, especially for fancy grades which in some cases will be fifty per cent. higher.

CATALOGUES RECEIVED.

Thomas J. Grey & Co., Boston, Mass.—Catalog of Fall Bulbs for 1907. With a tasty green cover, "Neat but not gaudy."

Henry Saxton Adams, Wellesley, Mass.—"Little Brown Book" of Dutch Bulbs. A concise bulb catalogue, unique in style.

MOVEMENTS OF GARDENERS.

W. P. Mahan, of Tuxedo, N. Y., is now located at New Brunswick, N. J., as superintendent of the R. W. Johnstone estate.

George Edward Lane, who for the past fourteen years has been employed as assistant to the late Supt. Stone, has been appointed to succeed him as superintendent of the Pine Grove Cemetery, Lynn, Mass.

BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

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Blue List of Wholesale Prices mailed only to those who plant for profit.

CABBAGE PLANTS

Early and Late Flat Dutch, Succession and Savoy \$1.00 per 1000, 10,000 and over 80c. per 1000.
CELERY, Golden Self Blanching, Giant Pascal, White Plume, Winter Queen, Golden Heart, \$1.00 per 1000, 10,000 and over 80c. per 1000.
Borecole, Brussels Sprouts, 1 lb., \$1.00 per 1000.
Lettuce, Grand Rapids, Boston Market, Defiance, \$1.00 per 1000. Moss Curled Parsley \$1.00 per 1000.
My Plants are Fine. Cash with order, please.
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BEGONIA

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Plants from 2½ in. pots

\$15.00 per 100

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BODDINGTON'S GIGANTIC CYCLAMEN SEED

in magnificent mixture, containing the most superior colors, such as Blood-Red, Salmon, Light Pink, Dark Pink, White, etc., in equal proportions.

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Per trade pkt., 50c. 100 seeds, \$1.25
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BODDINGTON'S EXTRA-EARLY CHRISTMAS WHITE SNOWBIRD. An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing. Color clear white upon long stems; habit fairly dwarf, and of exceptionally free flowering qualities. Trade pkt. 50c., per oz. 30c., ¼ lb. \$1, ½ lb. \$1.50, lb. \$2.50.

CANARY. Similar to the above, but flowers of an exceptionally good yellow. Trade pkt. 50c., per oz. 30c., ¼ lb. \$1, ½ lb. \$1.50, lb. \$2.50.

FLAMINGO. Color scarlet; free-flowering and early. As the crop of this variety was small, we can only send out packets this season for trial. Pkt. 25c., 5 pkts. for \$1.

BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation as by sowing the seed under glass in latter part of August, flowers can be cut from Thanksgiving on during the winter months. Per oz. 10c., ¼ lb. 30c., ½ lb. 50c., lb. 75c.

BODDINGTON'S CHRISTMAS WHITE. A grand companion to Christmas Pink. Per oz. 10c., ¼ lb. 30c., ½ lb. 50c., lb. 75c.

Our Fall Bulb Catalogue now ready, if you have not already secured one—send a postcard today. Besides a full collection of seeds for fall sowing it contains a list of over

Two Hundred Varieties of Perennial Seeds

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THE FLORA OF YELLOWSTONE PARK AND THE PUGET SOUND COUNTRY.

Read before the Society of American Florists at Philadelphia by J. Otto Thilow, of Henry A. Dreer, Inc.

It is hardly possible in the space of the allotted one or even two hours to give a fair description of the flora of this vast park—better styled, "The World's Wonderland," and when coupled with the natural and curious phenomena which exist throughout, it is the more wonderful, and in greater contrast than can be found anywhere in the world. Upon entering at the Gateway at Gardiner the flowers of the Park greet you before even entering the Gardiner Canon—and are prominent throughout on mountain side and in the valleys—with species suited to the location—and in their season covering their native habitat with a conquest of color. They grow almost everywhere, and one rarely finds a spot so sterile that Nature has failed to beautify it with some simple blossom.

We will take a tour of the Park throughout, following the coach road, and note from place to place the various flowers to be found during the summer season, and while enroute get a glimpse of the wonderful and mysterious formations produced by the geysers and hot springs in their constant action, whose beginning has no record, nor whose ending a prophecy. Alighting from the Northern Pacific train at Gardiner Station, the Gateway to the Park, one is seized with an unrestrained anxiety to mount to the top of one of the six-horse coaches in waiting, and get the first ride of five miles up and up to the altitude of 6000 feet above sea level, when reaching Mammoth Hot Springs. A full afternoon is offered here for sight seeing and reconnoitering. The hillsides near the springs are covered with bitter-root or wild portulaca (*Lewisia rediviva*). Its stem, calyx and flower are of delicate pink, having no green; it is of low growth. The root of this plant was used by the Indians for food.

The bitter-root has been chosen as the State flower of Montana. The Lungwort (*Mertensia*) is a harbinger of spring, appearing very early with its blue bells.

The night-blooming *Mentzelia* is considered one of the most beautiful flowers; found on desolate and arid spots; it somewhat resembles a thistle; it is found abundantly below the Mammoth Hot Springs.

The anemone, or rasque flower, is found in May and June about the foothills of Mammoth Hot Springs.

A trip over the formations presents a vivid brilliancy in coloring of which the flowers cannot boast, among them Pulpit, Jupiter, Cleopatra, Minerva, Hymen, and Angel Terrace, Cupid's Cave. Orange Geyser formation, and every conceivable color in the hot springs themselves. The afternoon spent with this constant alpine exertion fits one for early retiring and sound sleep.

The trip is resumed the next morning in coaches of twelve including the driver, drawn by four horses well matched. The start is made at 8 A. M. on toward Norris, twenty miles distant. A few miles from Mammoth

Hot Springs we pass through Silver Gate, a mass of Travertine rocks, of limestone formation. They are called the "Hoodoos." Further on, and when 12 miles from the Springs, Bunsen Peak comes into view. This peak, 9700 feet high, is covered with growth of pine contrasting beautifully with Terrace Mountain opposite, which is of beautiful yellow and gold. Between these two the road winds, hugging Terrace Mountain, and elevated by a concrete viaduct, below which the Glen Creek finds its way into Gardiner Canon.

The evening primrose (*Oenothera*), also called rock rose, is found here. It is a night bloomer, and very fragrant. It is found where there is apparently no soil. The flowers are white at first, and gradually turn to a deep rose pink. The period of flowering is long. There are four species.

The beard tongue (*Pentstemon*) in thirteen species is found here, and



J. OTTO THILOW

almost throughout the Park, and is most noticeable on the roadway where it catches much of the dust of the coaches, yet it seems to defy the dust and drouth, and exists in spite of adverse conditions.

Halfway to Norris (10 miles) is located the wonderful Apollinaris Spring. None of this valuable water is wasted. That which is not relished by the tourist runs into a tank, and is taken up by the sprinkling carts and sprinkled on the roads to settle the dust, as well as it often unsettles the stomach of the tourist, who unwisely takes too much.

Obsidian Cliff comes next into view. This wonderful mountain of glass, as black as coal, is a world's wonder, and no doubt the remains of volcanic action. It is a half mile long and 250 feet high. On its top is a forest of pine, thinly scattered but growing. When building the roadway it was necessary to cut through one end. This could be done only by heating it with blast fires, and pouring cold water upon it, so by crumbling it its removal was possible, as it resists the chisel and blasting.

Beaver Lake nearby is now overgrown with vegetation. The blue gen-

tian is prominent here, and also the lupin, which comes in colors from very pale lavender to deep blue and purple. It is found throughout the park, and in bloom the greater part of the season. Continuing on and looking over the valley to the right the Twin Lakes can be seen, but before reaching them Roaring Mountain is heard to the left; a powerful steam vent near its summit, which has been quite active since 1902, makes a very loud noise which can be heard a mile away.

Arriving at Twin Lakes (16 miles) one is struck with its beautiful blue, not due to the hot water as in the other basins and lakes, as the Twin Lakes freeze over in winter, and for that reason aquatic growth is abundant, even to some native small flowering *Nymphaeas*. The undergrowth in the pine forest is very thick, resembling the prostrate juniper, but upon examination it was found to be low-growing hemlock, singularly encircling each tree. A little further on, and on a slight rise, a large area through the wood is covered with the native fern—*Cystopteris fragilis*, growing very thick, even to the edge of the road. The Devil's Frying Pan is the next interesting object. It is a small basin, or geyserite, vigorously stewing or frying, resembling a kitchen spider in operation.

Norris Geyser Basin is next in evidence; not in view but in odor. The sulphur fumes are clearly impressive, perhaps nowhere in the Park is this as prominent as at Norris Geyser Basin. The trees have suffered severely from the many new spouting and sizzling springs, which have sprung up in recent years; and have added to the pot-pourri already in innumerable variety. Black Growler, Hurricane, Congress, Monarch, Locomotive and New Crater are among the noisy veterans, while the Devil's Bath Tub performs its regular function of giving his Satanic Majesty a hot wash-off whether he objects or not. One and a half hours are spent here for lunch and sight seeing. Very few flowers can be found here, except a few pentstemons among the scrub pines north of the formations.

The road follows the Gibbon River to within a few miles of its mouth. The ride through Gibbon Canon of about 6 miles is one of the most interesting through the Park—the road lies close to the river's edge, the mountains rise on the opposite side presenting beautiful views. Large clumps of phlox of the subulata type are on and about the rocks on the opposite side of the river, in bloom only in the early season directly after the snow disappears.

Beryl Spring, five miles from Norris, is close to the road, discharging a great volume of water, and sometimes vapor enough to obscure the roadway. The next interesting object is Soda and Iron Spring—everybody takes a drink. Gibbon Falls a half mile further on is one of the Park features—rushing through the Canon and over the black rock it presents a beautiful veil effect.

The Colorado blue spruce growing up out of the Canon alongside the falls, even towering to the top of the cliff, gives additional color to this beautiful scene. From this point a splendid view over the forest valley



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Our stock of Araucarias is exceptionally fine this season, the plants are well hardened off and if you anticipate to lay in a supply, now is the time to buy. We are in position at present time to give you much better values than after the plants are placed in winter quarters.

ARAUCARIA EXCELSA

4 inch pots, 6 to 7 inches high,	2 tiers.....	35 cents each
5 " " 10 to 12 " " "	3 "	65 " "
6 " " 12 to 14 " " "	3 to 4 "	75 " "
6 " " 14 to 16 " " "	4 "	\$1.00 "
6 " " 16 to 18 " " "	4 "	1.25 "

ARAUCARIA EXCELSA CLAUCA

5 inch pots, 8 inches high,	2 tiers.....	\$0.75 each
6 " " 12 " " "	3 "	1.00 "
6 " " 13 to 15 " " "	3 "	1.25 "

ARAUCARIA ROBUSTA COMPACTA

6 inch pots, 10 to 12 inches high,	2 to 3 tiers.....	\$1.25 each
6 " " 14 to 16 " " "	3 "	1.50 "

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can be had. In the next four miles there is no scenery of special interest until the coaches reach Fire-hole river again, and come in full view of the pretty cascade; then the road ascends the right, or east bank of the river for the next three miles. Before reaching Nez Perce Creek a quantity of larkspur (*Delphinium*) was noticeable, ranging in color from very pale light blue to a strong sky blue, and a few clusters of immortelles (*Anaphalis*) in pale pink and white, the foliage of silvery white.

Covering the twenty miles from Norris brings the tourist to Fountain or Lower Geyser Basin. This is a very interesting place, and the first where the black and brown bears can be seen, and the first place visited is their feeding grounds. They are interesting and quite docile, perhaps because they are well provided with substantial food they are not anxious to dull their teeth on lean Yankees. In the woods near the bears' feeding grounds a profusion of harebell (*Campanula rotundifolia*) can be found with an occasional blue beard tongue (*Pentstemon*).

Enough time is allowed in the evening and early morning to visit the many interesting features—The Fountain and Great Fountain Geysers, Mammoth Paint Pots, Surprise Pool, and many other pools and spouting springs, whose weird performances would suggest a name from each visiting tourist.

A very little flora can be found on the plateau, as a great area is covered with the geyser product—finding its way even into the valley, where hundreds of acres are covered, and the trees have yielded to its effects. The lower Geyser Basin covers an area of 30 square miles. The Twin Buttes are prominent features; these two peaks, which are west of the river, dominate the entire basin. The well known Excelsior Geyser is the greatest in the Park, and perhaps in the

known world. This water volcano, which is near the Firehole river, pours out 4000 gallons of water per minute, even when not in eruption; its dimensions are about 330 feet by 200 feet, and 20 feet deep, and when in eruption it throws a body of water 50 feet in diameter 250 feet high, and at such times ejects very large rocks. Prismatic Lake is a wonderful body of water, in which can be seen a perfect reflection of the rainbow colors. This pool is 250 feet by 300.

The tour from Lower to Upper Geyser Basin, known as Old Faithful, covers a distance of nine miles. Along the roadway, and looking over into the valley, the low growth of spruce presents a modern Park appearance. In some of the shaded spots the wolfsbane (*Aconite*) shows in clusters of violet purple. This plant seems to flourish best in high altitudes.

Just before reaching Upper Geyser Basin the first interesting feature is Biscuit Basin, which is off from the road westward. It contains a geyser and several beautiful springs. Sapphire Pool is especially beautiful, of a rich blue.

On the main road, and just at the edge, is the wonderful Morning Glory Spring. It represents perfectly a large azure blue flower of that name. A little above is the Fan Geyser. It spouts obliquely and not vertically.

After crossing the river toward the west is Grotto Geyser, and the Giant. The interesting Punch Bowl is a round basin rising only about 18 inches above level ground, with every conceivable color on its sides, showing the effect of mineral in its water. It is in a constant boil. Rounding the road a little to the left the wonderful Old Faithful Inn comes into full view. Its approach is beautiful, as it is a winding road through a pine forest.

When the tourists arrive and enter this magnificent structure, they at once express the desire to remain longer than the allotted time. Time

would not permit a full description of the wonderful conception of architectural genius which planned this model hostelry. It is constructed with material from the surrounding forests so artfully joined together that it does not deviate from the idea of a mammoth bungalow of log cabin style. A view from the roof towards the east over the tops of the forests into the mountains is enchanting and refreshing.

Directly in front of the Inn is the home of geysers, springs and pools, and to the southeast is Old Faithful, which is also a veteran timepiece as well as a monster geyser. Its hourly action is with the same force as it has been for thousands of years perhaps. A stroll back of the hotel through the pine forests and among the bears reveals a very little of interesting flora except an occasional glimpse of the mountain primrose. They are more plentiful after leaving Upper Geyser Basin and going toward Yellowstone Lake. At least three varieties of hardy asters partly cover the wooded hills back of Old Faithful Geyser. They are in bloom the whole season. A trip with the guide over among the geysers and pools is highly interesting, Emerald Pool being a chief feature among these. When following the guide and walking in the course as he directs, one is reminded of going through an extensive perennial garden, constantly looking for new features. After returning to the hotel a pleasant evening is spent before a large open log fire; corn popping and other entertaining features are the evening's program, not forgetting a

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night view of Old Faithful in eruption with searchlight and color effect. The old fashioned beds induce an old fashioned sleep; the exhilarating atmosphere in early morning induces a sharp appetite for old fashioned corn cakes and an old style breakfast with modern trimmings and service. An early start is made for the lake (19 miles), and one of the most pleasant rides in the Park. Keppler's Cascades, a short distance out, are generally viewed by everybody. Along this route the beard tongue (*Pentstemon*) is plentiful. Madison Lake, ten miles up the valley is said to be further by water route from the sea than any other lake on the globe. Before reaching the lake the Continental Divide is crossed—altitude 8425 feet. On this height is the lily-covered pond filled with the yellow water lily (*Nymphaea polysepala*).

Descending the Divide the coaches pass down Corkscrew Hill, and when arriving at Shoshone Point an enchanting view of Shoshone Lake miles away presents a most restful scene over the towering pines in the foreground. Lake View, one mile from the Lake is said to be one of the most striking water landscapes in the world.

After passing through a dark pine forest the coaches suddenly arrive at Thumb Station at the edge of Yellowstone Lake, a body of clear cold sparkling water 7741 feet altitude, or nearly one and a half miles above the sea. After lunch at Thumb it is optional to continue with the coaches over the mountain road (16 miles), and cross Natural Bridge, or cross the lake by boat; either ride is extremely delightful, the coaches are constantly in full view of the lake. About 5 P. M. brings the tourist to Lake Hotel. This place with its surroundings, overlooking the tranquil lake bespeaks rest from the roaring and hissing geysers and hot springs—the only roar would be from Bruin and his associates in the woods back of Lake Hotel. A glimpse from the roof of the hotel off to the left of the lake reveals a scene without compare and no encomium that it would be possible to pronounce would overrate its merits; the towering peaks gilded by the setting sun clothed them with a halo of the softest tint which leaves an impression never to be forgotten.

A ramble through the woods and along the river and edge of the lake reveals a garden of natural flora. The seed fluff of the *Clematis ligusticifolia*, is abundant, forget-me-not, (*Myosotis sylvatica*) is also found here and along the river through Hayden Valley. The everlasting flower (*Antennaria dioica rosea*). Aside from becoming well acquainted with the bears, a delightful pastime is fishing in the lake and river for trout; it is always a sure catch, one can without fear of contradiction describe their size to those who have been through the Park. The night is spent at Lake Hotel, a peaceful and restful one it is, away from the roar of the geyser which knows no cessation. An early start is made in the morning for the crowning feature of the Park's wonders, viz., The Grand Canon. After covering 7 miles and before entering Hayden Valley, the wonderful Mad Volcano is visited. It lies west of the lake a short distance. The action is

uncanny but interesting; it is a huge cavern filled with mud which is thrown from one side to the other by steam force which issues from many openings in the sides of the crater. This action is constant, weird and noisy, and emits an odor far different to that of heliotrope or lemon verbena.

While passing along the river bank many clusters of the buttercup (*Ranunculus Montanensis*), were noticeable, but not in bloom, their time being June and July.

Trout Creek (9 miles), presents an interesting feature, having cut its way through and around the plateau, forming the Northern Pacific Railroad trade-mark. Two miles further on and a half mile from the main road is Sulphur Mountain, which is especially interesting in the morning when the numberless little steam jets issue from its top and sides. A notable feature is that the trees do not object to this sulphur bed, they grow freely amid this sulphur deposit.

Hayden Valley is one of the most picturesque scenes, the river winds beautifully on and narrows as it reaches the cascades. This valley is an important winter range for the Park buffalo and elk, and covers an area of fifty square miles. A dense fern growth follows along until the cascades are reached.

Upper Falls 112 feet high is beautiful and turbulent. The scenery here is very rugged.

In a moment the coaches arrive at a bend in the road which reveals the whole vista of the Grand Canon of the Yellowstone. A sharp rise in the road with a heavy tug brings the tourist to the Grand Canon Hotel, which is 1000 feet above the Upper Falls. The only time spent at the hotel is the lunch hour, the balance of the day is given entirely to the Canon which can be viewed from either side of the river. The Grand Canon of the Yellowstone is acknowledged by all beholders to stand without parallel among the natural wonders of the globe. Other canons have greater depths and more imposing walls, but there are none which, in the words of Captain Ludlow, "unite more potently the two requisites of majesty and beauty." It is 2000 feet wide, 1200 feet deep and twenty miles long. It is pre-eminently a canon of color. Its principal feature and a most inspiring one is the lower or Great Falls, 310 feet high, pouring over its brink the waters of the Yellowstone River with a thundering force. The west side is a panorama of the brightest colors that pigments could suggest, while the east side is heavily set with pine and spruce contrasting beautifully through its entire length. Forget-me-nots (*Myosotis sylvatica*), are found on the very crest of the east side and half way down its bank.

Along the road and leading up to the side of Mt. Washington the buttercup grows in profusion, also many clusters of the blue gentian. The columbine (*Aquilegia*) is here in its favorite habitat. Quite a chapter can be written about Mt. Washburn, and its commanding prominence. It is the most celebrated peak in the Park from which a panorama which defies description lies before you. As the tour was over the old route leading from Canon back to Norris, thence to Mammoth

Hot Springs and Gardiner, the pleasure and many new features are in store for those who will from now on tour the Park, as the new route will be via Yancey and Mammoth Hot Springs. This will afford a trip along nearly the entire length of the Canon, and over parts with new and distinct features different from those described above. We will, therefore, follow the old route from Canon to Norris, passing the Solfatara Plateau and the Virginia Cascade. The mountains and valleys along this stretch are very interesting both in scenery and heavy growth. After covering about 12 miles, Norris is reached, lunch is taken another visit made to springs and geysers, and then toward Mammoth Hot Springs and Gardiner.

In concluding with the Park flora a few species which have not been mentioned should have a place. The fire weed or willow herb (*Epilobium*), the globe flower (*Trollius albiflorus*), shooting star or American cowslip (*Dodecatheon* in four varieties), bladder pod (*Physaria*), Jacob's Ladder (*Polemonium*) in four varieties, golden rod (*Solidago*), in five varieties.

It is interesting to know that the cultivated varieties such as sweet peas, which bloom through the whole season, pansies in large flowers, marigold, asters, and many of the leading annuals find congenial conditions for thorough development.

Fifteen hours by the Northern Pacific brings the tourist into the State of Washington among the stately firs and heavy undergrowth of beautiful wild flora. The vast difference in climatic conditions between the east and west of the States of Washington and Oregon are such as to give each State a northern and southern flower blooming period. The flowers of the Puget Sound region grow in great profusion and beauty.

We shall not take up the wild flora, but touch only in part on the results achieved with cultivated varieties which are generally known. Roses bloom out of doors from early in April to late in November, and nowhere, not even in California, are they excelled in size, beauty and fragrance. The mild winters and moist climate of the Coast region make ideal conditions for propagation of shrubs and bulbs. Narcissus, tulips, hyacinths, lilies, dahlias and others multiply rapidly, during the summer, so that full sized young bulbs are harvested by fall. Lilies in particular seem to enjoy the soil and weather conditions, and after once planted they become established and continue year after year bearing and multiplying. Sweet peas are used as veranda vines; they bloom through the summer until frost in November, and cover trellises twelve feet high. In Seattle in the residential sections, every home, with rare exceptions had abundance of sweet peas and Noisette roses are trained over large screens and on walls; the Hybrid Teas seem especially adapted to the soil and weather of Seattle, Tacoma and Portland.

Hybrid clematis grows as freely as the honeysuckle, and blooms through the summer and fall. The Mountain Ash is a prominent specimen in all parks and along the avenues covered with its red clusters.

Referring to the roses again, it is interesting to note that many varieties in Standards flourish as well as in England and France. The free flowering Hybrid Teas are planted in rows between trees, and between the sidewalk and curbstone, producing large bushy specimens 4 to 5 feet high and of same diameter, and were in full bloom at middle September. Retinosporas grow in perfect symmetrical specimens twenty feet high, the box elder—thirty feet high, and in perfect foliage.

The Puget Sound country has every advantage for the development of plants, flowers, and seeds; while its location would lead one to think it was of the Alaskan climate, lying north of Quebec and Duluth, yet it is four degrees south of London, and as the British Isles are tempered by the Gulf Stream, this north-west country is influenced by the Japan current which is 400 miles wide. There is neither extreme heat nor cold, nor disastrous lightning and storms. The wild flora of this belt of country is very extensive; it is interesting to botanists because of the thorough development of all plants and flowers.

PERSONAL.

On Tuesday, September 3, Jackson Dawson rounded out 36 years of service in the Arnold Arboretum.

Mrs. George W. Thornton, mother of the Thornton Bros., of Lawrence, Mass., celebrated her 80th birthday at Methuen on September 1.

William Brazier, foreman for Thomas Roland, Nahant, Mass., is in the hospital hopelessly ill with a tumor on the brain. Mr. Brazier's wife died last spring.

Prof. A. L. Peck, formerly of Amherst, Mass., has entered upon his duties as assistant horticulturist at the Kansas Agricultural College, Manhattan, Kansas.

Visitors in Boston—Mr. and Mrs. H. G. Berning, St. Louis, Mo.; John Dunbar, Rochester, N. Y.; L. A. Beckmans, Augusta, Ga.; Mr. Harrison of Cragg, Harrison & Cragg, Heston, Middlesex, England.

James H. Beatty, who has been connected with the park department for the past twenty years, has been appointed superintendent of parks in Manhattan and Richmond boroughs of New York, at a salary of \$3,000 per annum.

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Killarney, Wellesley, Fan. & Sp.....	5.00	to 6.00	4.00	to 6.00	5.00	to 6.00	3.00	to 4.00
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FLOWER MARKET REPORTS

BOSTON A welcome spurt in business at the beginning of the week petered out before it acquired any great momentum, and just now things are quiet as they can be. The cool weather has shortened up the influx of roses somewhat and the unwieldy surplus of low grade blooms is reduced in consequence. All other varieties of staple flowers remain as reported last week.

BUFFALO Business is brightening up considerably all along the line. Roses, especially Kaiserins and Brides, and lily-of-the-valley, are in demand for fall weddings. Beauties sold well the past week, the quality being good. Asters of fancy quality were somewhat scarce, it being between crops, the late branching just coming on. Some excellent stock is being received and prices hold well. Gladioli have improved much and the fancy varieties find ready buyers, but there are too many mixed colors at times. Smilax and other greens have had a good call.

NEW YORK Fall activity has not developed to any appreciable extent yet. There are more flowers on the market than anybody wants, and sales are made at convenience figures mostly. Carnations are conspicuously absent, but there are plenty of dahlias, asters and other things available to take their place in floral work. Gladioli are plentiful, also lilies; orchids scarce and usually sold well in advance.

PHILADELPHIA Business was pretty flat last week. Good long-stemmed asters sold well as did also choice long American Beauties but the main receipts of both these items were shorts and were a sad glut among the enormous pile of fair to medium in all lines. Carnations are almost a negligible quantity although a few fairly good Lawson and Enchantress were noted. Cattleyas are very scarce. Lily of the valley fairly plentiful with good demand. Hydrangea and other outdoor subjects much in evidence but go slow. The gladiolus crop has lightened up considerably. Easter lilies are very good at present and have been a very satisfactory item for some time back. The Whitmani and other filmy forms of Nephrolepis are now a staple in the cut green line and bring from \$4 to \$5 per 100 fronds. Bronze galax is running low and will be entirely sold out before arrival of new crop.

SAN FRANCISCO I have not sent you any report lately, as business has been so dull here that there was nothing to report, but now florists and growers are getting hopeful, as with the returning of the people from the summer resorts and the end of the protracted car strike, trade is picking up all around, and there is a promise of a gay season among society folks. Liliun speciosum, asters, amaryllis Belladonna and most all summer flowers have been brought to market in such quantities, that they could be bought at almost any price. Roses

and carnations held their price as they were short in supply. A few chrysanthemums have been in the market for several weeks; they are of good quality for this time of the year. Violets are also in evidence. There is a prospect of a scarcity of roses and carnations for the next month, as most growers are replanting. Very few new greenhouses have been added the last year owing to the high price of building material and labor. This, together with the increased cost of fuel and help will tend towards higher prices for all crops.

DETROIT NEWS.

The local park board is doing some great work in pruning and spraying the shade trees of our principal streets. This work is carried on under the supervision of City Forester J. W. Hunter, and while the first special appropriation of \$3,000 is about used up, the Council seems to recognize the work done and is ready to allow \$3,000 more.

The dry season of several weeks back was broken by copious showers Sunday night, and the cool weather following will have a beneficial effect on our boulevards.

It is to be regretted that the local florists allowed the State Fair to go on without some competition for the many prizes offered. While the prizes are not very large, there is still a certain kind of advertisement connected with it which to date seems hereabouts to be recognized by the allied trades only, but not by the florists.

The most interesting display is staged by the Park Board. The best competing display is by Mrs. Bausch, with a well-executed Gates Ajar. S. F. Taplin shows a good collection of stove plants and large palms. Thos. F. Comaulack carries off the laurels for best asters, coleus and geraniums.

FRANK DANZER.

PACIFIC COAST SOCIETY DOINGS.

The Menlo Park Horticultural Society will hold its annual fall exhibition on October 18 and 19 in Menlo Park. The first annual flower show of the Marin County Horticultural Society will be held in San Rafael, October 19. Both societies have out a very attractive premium list and are working with considerable enthusiasm.

The German Gardeners' Society Hortensia will hold its annual picnic at the nursery of E. Flossmann, Oakland.

H. PLATH.

SAN FRANCISCO NOTES.

A. Mann, Jr., has sold out his interest in the Shibely Mann Co., to Mr. F. Shibely. Mr. Mann intends to go into the wholesale and commission business.

N. Peterson has been erecting a large and modern greenhouse in the rear of his store at 324 Fillmore St.

V. Matraia has gone East on a business trip.

Domoto Bros. are erecting a new house for Am. Beauties.

PHILADELPHIA NOTES.

The Philadelphia Cut Flower Co. have moved into their new quarters on the north side of Sawson Street.

Mr. Ed. Kantz of Chicago who was taken to the Municipal Hospital suffering from diphtheria during convention is reported to be progressing favorably.

The season has been favorable for dahlias and all the choice cutting and shipping sorts will soon be seen at their best. The Pennock-Mehan Co. are handling the cut of the Atco and Hammonton farms.

J. Otto Thilow of Dreer's has been selected by the management of the Jamestown Exposition for a talk on "Selection in Seed Raising" on September 21st. This is gratifying to practical men who have to listen so often to discourses purely theoretical, and does credit to the wisdom of the powers that be.

With a reckless disregard for the supply of retail florists in Philadelphia an insane Greek from Washington named Kantonas entered the store of Frank Polites on Monday and attempted to murder the proprietor with a club. A stiff straw hat, three employees and a policeman, all aided in preventing this untoward event and the fracas ended in a wrecked store including plants and show cases—with the hurry-up wagon for the crazy man. Mr. Polites had modestly declined to produce the small sum of twelve billion dollars—and the dance commenced.

NEWS NOTES.

The Illinois State Florist Association has changed its location from Joliet to Springfield.

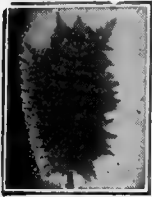
Henry Crandall, of Glens Falls, N. Y., has presented his spacious grounds to the town to be used as a park.

The East End Floral Co. will open for business in Memphis, Tenn., this month. Charles Hammer is the proprietor.

Franklin & Crosby, of Brooklyn, Ct., have commenced building a range of greenhouses on the property recently purchased by H. D. Crosby in Danielson. Lord & Burnham Co. have the contract.

Three years ago Mrs. J. L. Gardner of Brookline and Boston established the custom of awarding prizes amounting to \$100, among the residents of the thickly settled portions of Boston for the prettiest ornamentation of windows in their homes with flowers, vines, etc. Prizes for this year have just been donated to eighteen fortunate contestants at Mrs. Gardner's Brookline home where she personally entertained them providing a special car for the trip. The interest in the contest grows each year.





HARDY FANCY CUT FERNS, Extra fine, \$1 per 1000
BRONZE GALAX, \$1.25 per 1000. SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25
Hammond's Old English Liquid Putty, \$1.25 per Gal. Hammond's Greenhouse White Paint, \$1.50 per Gal.
DISCOUNT ON LARGE LOTS
 Give us a trial order on ferns; we are sure we can please you. Headquarters for Florist Supplies and wire work.
 Write for price list on cut flowers and supplies.
MICHIGAN CUT FLOWER EXCHANGE, INC., Wholesale Commission Florists, **38-40 Broadway, Detroit, Mich.**
TELEPHONE CONNECTIONS.

Headquarters in Western New York
 FOR
ROSES, CARNATIONS
 And all kinds of Seasonable Flowers
Wm. F. Kasting Co.
 Wholesale Commission Florist, also Dealer in
 Florists' Supplies and Wire Designs.
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 FRESH CUT FLOWERS, CUT EVERGREEN, AND FLORISTS' SUPPLIES.
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WHOLESALE DEALERS
 Fresh cut Palmetto & Cypas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI August 20	DETROIT Sept. 2	BUFFALO Sept. 2	PITTSBURG Sept. 3
ROSES				
Am. Beauty, Fan. and Sp.	15.00 to 25.00	20.00 to 25.00	20.00 to 25.00	..... to 20.00
" Extra	10.00 to 12.00	15.00 to 20.00	15.00 to 20.00	..... to 12.50
" No. 1	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	6.00 to 8.00
Lower grades	3.00 to 6.00	2.00 to 3.00	3.00 to 8.00	4.00 to 5.00
Bride, 'Maid, Golden Gate, F. & S. ....	..... to 6.00	4.00 to 6.00	6.00 to 7.00	..... to 5.00
" " " Extra	3.00 to 5.00	4.00 to 6.00	4.00 to 6.00	..... to
" " " No. 1 & lw. gr.	3.00 to 6.00	3.00 to 4.00	2.00 to 4.00	2.00 to 3.00
Liberty, Richmond, Fan. & Sp.	3.00 to 4.00	4.00 to 6.00	6.00 to 8.00	..... to 5.00
Lower grades	5.00 to 6.00	4.00 to 4.00	3.00 to 6.00	2.00 to 3.00
Chatenay, Morgan, Fan. & Sp.	3.00 to 4.00	4.00 to 6.00	6.00 to 8.00	..... to
Lower grades	2.00 to 3.00	4.00 to 4.00	3.00 to 6.00	..... to
Kaiserin, Carnot, Fan. & Sp.	5.00 to 6.00	4.00 to 6.00	6.00 to 7.00	6.00 to 8.00
Lower grades	3.00 to 4.00	3.00 to 4.00	6.00 to 6.00	2.00 to 3.00
Killarney, Wellesley, Fan. & Sp. ....	..... to 6.00	4.00 to 6.00	6.00 to 7.00	..... to 5.00
Lower grades .....	..... to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00
CARNATIONS				
Fancy and Novelties .....	..... to 2.00	..... to	1.50 to 2.00	1.00 to 2.00
Ordinary .....	.75 to 1.00	1.00 to 1.50	1.00 to 1.25	..... to .50
MISCELLANEOUS				
Sweet Peas .....	..... to .25	..... to .25	.15 to .50	.25 to .50
Cattleyas .....	..... to .....	..... to 50.00	50.00 to 60.00	..... to
Lilies	8.00 to 10.00	..... to	4.00 to 15.00	..... to 15.00
Lily of the Valley	3.00 to 4.00	..... to 4.00	3.00 to 4.00	2.00 to 4.00
Asters .....	.50 to 2.00	.75 to 1.00	.25 to 2.00	.25 to 2.00
Gladioli	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	1.00 to 4.00
Adiantum .....	..... to 1.00	1.00 to 1.50	.50 to 1.50	1.00 to 1.25
Smilax	10.00 to 12.00	15.00 to 20.00	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	35.00 to 50.00 to 50.00	40.00 to 50.00	25.00 to 50.00
" " & Sprea. (100 bchs.) to 25.00	20.00 to 30.00	25.00 to 35.00	20.00 to 30.00

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LIGHT WOOD CUT FLOWER BOXES
 Sizes in Stock per 100
 3 x 4 x 20 \$4.00
 3 x 5 x 24 4.50
 3 x 7 x 21 4.50
 6 x 6 x 24 6.80
 4 x 12 x 24 9.00
 6 x 12 x 24 10.50
 6 x 12 x 30 12.50
 5 x 12 x 36 14.00
 6 x 12 x 36 15.00
 6 x 15 x 42 20.00
 6 x 15 x 48 23.00
 Write for samples and prices in car load lots.
GETMORE BOX FACTORY, Incorporated,
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 Cut spikes in any quantity from
 Selected White and Light Shades;
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 Varieties of Exceptional Beauty.
 Write for Prices
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Florists' Supplies
 We manufacture all our
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Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dyart, 28 State St., Boston.
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ADIANTUMS

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. **J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.**

Adiantum Hybridum, 2-12 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. **A. Ley & Bro., Highland, Ulster Co., New York.**

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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H. A. Dreer, 714 Chestnut St., Philadelphia.
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Fall delivery. Our stock will please you.
J. W. Dunford, Clayton, Mo.

ASPARAGUS

C. Elsele,
11th and Roy Sts., Philadelphia, Pa.
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Asparagus Sprengerii, 2-14 in.; ready for planting out or into larger pots. \$2.50 per 100; \$20.00 per 1000; 500 at 1000 rates. **J. F. Anderson, Short Hills, N. J.**

Asparagus plumosus nanus and Sprengerii, 2-12 in., \$2.50 100. **Carl Hagenburger, West Mentor, Ohio.**

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. **Wittbold Co., 1657 Buckingham Pl., Chicago.**

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. **Erle Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.**

Asparagus plumosus, 2½ in., \$3.50 per 100; \$30 per 1,000; 3-in., 6c.; 3½ in., 10c.; 4-in., 12c.; 5-in., 20c.; 6-in., 30c. **Comorensis**, 2-in., 2½c.; 2½ in., 3½c. **Cormorensis**, 3½ in., 6c. Sprengerii, 2½ in., 3c.; 3½ in., 8c.; 4-in., 10c. **J. W. Dunford, Clayton, Mo.**

Plumosa Seedlings, 90c. hundred, prepaid; 2-12 in. ready for shift, \$3 per hundred. Sprengerii well established, out of thumb pots, prepaid, \$1.60 per hundred. Will exchange seedlings for Primulas, Cinerarias, Hydrangeas, or Lorraine Begonias. **Budd Park Greenhouses, 40 Hardesty, Kansas City, Mo.**

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John Scheepers & Co., 4 and 6 Old Slip, New York.
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The best commercial varieties. **J. W. Dunford, Clayton, Mo.**

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Stumpp & Walter Co., 50 Barclay St., New York.
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BAY TREES.

Bay Trees. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. **N. F. McCarthy & Co., 84 Hawley St., Boston.**

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. **J. Roehrs Co., Rutherford, N. J.**

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R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.
Begonia Gloire De Lorraine.
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BOILERS

BOILERS, "Burnham" Boilers made for greenhouse heating. **Lord & Burnham, 1133 Broadway, N. Y.**

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Boxwood, all sizes. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

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J. M. Thornburn & Co., 33 Barclay St., New York.
Roman Hyacinths: Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
Paper White Narcissus.
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John Scheepers & Co., 4 and 6 Old Slip, New York.
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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.
Lillium Harrisii and Freesia Bulbs.
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James Vick's Sons, Rochester, N. Y.
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D. Rusconi, 32 W. Sixth St., Cincinnati, O.
Callas, Narcissi, Dutch Bulbs.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
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J. A. McDowell, Ap. 167, City of Mexico.
Mexican Summer Bulbs.
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Wm. Elliott & Sons, 201 Fulton St., New York.
Lily Bulbs.

Write for prices on only selected bulbs, plants, etc. **F. W. O. Schmitz, Prince Bay, N. Y.**

BULBS AND TUBERS—Continued

Price list of native bulbs, tree, shrub and plant seeds now ready. **L. E. Williams, Nottingham, N. H.**

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Dutch Bulbs, including Hyacinths, Crocus, Tulips, Daffodils, etc. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

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F. Dorner & Sons Co., Lafayette, Ind.
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Chicago Carnation Co., Joliet, Ill.
Carnation Aristocrat.
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Sheppard Garden Carnation Co., 292 Fairmount St., Lowell, Mass.
Field Growing Carnations.
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Leo Niessen Co., 1209 Arch St., Phila.
Field Grown Carnations.
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Paul E. Richwagen, Needham, Mass.
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Chas. H. Totty, Madison, N. J.
Field Grown Carnations.
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S. J. Reuter, Westerly, R. I.
Field Grown Carnations.

John E. Haines, Bethlehem, Pa.
Imperial, Pink Imperial.

Carnation plants for sale. **J. B. Perry, Waban, Mass.**

Strong Field Plants. Variegated Lawson, Daybreak Lawson, \$6 per 100; 300 of each, **R. D. Kimball, Waban, Mass.**

S. S. Pennock-Meehan Co., The Wholesale Florists of Philadelphia, 1608, 1610, 1612, 1614, 1618 Ludlow Street.
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Carnations, extra fine field grown plants, at \$5 per 100. Lawson, White Lawson, Red Lawson, Lady Bountiful, H. N. Hoffman, Elmira, N. Y.

Carnation Plants. Field grown. Perfectly healthy—Queen, Enchantress, Maid, Queen Louise, \$5 per hundred. **A. S. Chase, Cumberland Center, Maine.**

Field grown Carnation plants: Estelle, \$5 per 100, \$45 per 1,000; Enchantress, \$5 per 100, \$45 per 1,000; Bountiful, \$6 per 100; Nelson Fisher, \$6 per 100; 500 at 1000 rate. **Blanksma Bros., R. 11, Grand Rapids, Mich.**

CHRYSANTHEMUMS

The H. Weber & Sons Co., Oakland, Md.
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C. Elsele, 11th and Roy Sts., Phila.
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Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2-12 in. stock are given on application. **Poehlmann Bros. Co., Morton Grove, Ill.**

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Hallday, Enguehard, \$1.50 per hundred. Cash with order, please. **W. H. and C. B. Newman, Akron, N. Y.**

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CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
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DAHLIAS

David Herbert & Son, Atco, N. J.
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DECORATIVE PLANTS

A. Lenth & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

EVERGREENS

Bay State Nurseries, N. Abington, Mass.
Small Evergreens.
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August Rolker & Sons, 31 Barclay St., New York. Small evergreens.
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FERNS

A. Lenth & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmanii.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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W. P. Craig, 1305 Filbert St., Philadelphia.
"Amerpohill."
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Rockland Greenhouses, Rockland, Mass.
Whitmanii Ferns.
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Miami Floral Co., 24 N. Main St., Dayton, O.
Boston Ferns.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowers, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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Koral Mfg. Co., 26 Hawley St., Boston.
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Decorative Evergreens.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.
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P. J. Hauswirth, 232 Michigan Ave., Chicago.
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William J. Smyth, Michigan Ave and 31st St., Chicago.
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Park Floral Co., Denver, Colo.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway, New York.
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

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W. H. Ernest, 28th and M Sts., Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Ellinger Bros., Ft. Edward, N. Y.
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GALAX

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.
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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury St., Boston.
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GLASS, High Grade. Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GRADING AND PLANTING

D. Robinson's Sons, Revere Beach Parkway, Everett, Mass.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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I. Cassidy, 215-21 Randolph Av., Jersey City, N. J.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.
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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

D. Hille, 49 Washington St., N. Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION. Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
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Michigan Cut Flower Exchange,
38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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L. B. Brague, Hinsdale, Mass.
Hardy Cut Ferns.

A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY HERBACEOUS PLANTS

Hardy Herbaceous Plants. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Bay State Nurseries, N. Abington, Mass.
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T. H. Chivers, Amesbury, Mass.
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HEATING APPARATUS

Lord & Burnham Co.,
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Johnston Heating Co., 1133 Br'dway, N. Y.
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INSECTICIDES.

Nicotine kills all greenhouse pests.
P. R. Palethorpe Co.,
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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.
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Joseph Heacock Co., Wyncote, Pa.

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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILACS

August Rolker & Sons, 31 Barclay St.,
New York.
Forcing Lilacs.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new
Christmas flowering plant. Write for de-
scriptive circular and price list. Chas. H.
Totty, Madison, N. J.

NICO-FUME

Kentucky Tobacco Product Co., Louis-
ville, Ky.

NIKOTEEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Hardy Stock.
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Nursery Stock. N. F. McCarthy & Co.,
84 Hawley St., Boston, Mass.

Choice Evergreens, Blue Spruce, etc.
Bobbink & Atkins, Nurserymen & Florists,
Rutherford, N. J.

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Lager & Hurrell, Summit, N. J.
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August Rolker & Sons, 31 Barclay St., New
York.
Kentia Palms.

Kentia, Phoenix, etc., all sizes. Write for
new price list. Julius Roehrs Co., Ruther-
ford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice Pansy Plants, Transplanted,
ready September 1; 50c. per 100, \$4.00 per
1000. S. J. McMichael, 142 Larkins St.,
Findlay, O.

PATENTS

Siggers & Siggers, Washington, D. C.
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George Hollis, 128 Hollis St., So. Wey-
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Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Nebr.

PEONIES—Peony and phlox manuals, 25
cts. each. C. S. Harrison, York, Nebr.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and
Wrought Pipe, Valves, Elbows, Pipe Hooks,
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz.
The Geo. Wittbold Co., 1857 Buckingham
Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POPPIES

Oriental poppies by 100 or 1000. C. S.
Harrison's Select Nursery, York, Nebras-
ka.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

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PRIVET

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Hardy Roses, H. T. Roses and Ramblers.
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Lady Gay Roses.
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F. E. Palmer, Brookline, Mass.
Rambler Roses.

Low-budded roses, No. 1, \$95.00; No.
1-2, \$65.00 1000. H. T. Jones, Ellizabeth,
N. J.

500 Maids, 100 Ivory, 75 Gates, very
strong, in 3½ and 4-in. Just right for
benching, \$5 per 100, for the lot. Cash. J.
W. Dunford, Clayton, Mo.

The beautiful new pink rose, MISS
KATE MOULTON is the queen of all
pink roses. It's a winner and you should
grow it. Price \$30.00 100; 500 \$125.00;
1000 \$200.00; 5000 and upwards \$175 per
1000. Minneapolis Floral Co., Minneapolis,
Minn.

SEEDS

T. J. Grey Co., 32 So. Market St.,
Boston, Mass.
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Sweet Peas.

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Mignonette Seed.
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J. A. McDowell, Ap. 167, City of Mexico.
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Augustus Zirngelbel, Needham, Mass.
Giant Pansies.

I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

SMILAX

S. J. Reuter, Westerly, R. I.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIREA

Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.

SWEET PEAS

Ant. C. Zvolanek, Bound Brook, N. J.
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R. Vincent & Sons Co., White Marsh, Md.
Celery Plants: Cabbage Plants.
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W. B. DuRie, Rahway, N. J.
Celery Plants.

Grand Rapids lettuce plants, A1 stock,
now ready to ship, 20c per 100, by mail;
\$1.00 per 1000, by express. S. J. McMich-
ael, 142 Larkins St., Findlay, O.

VENTILATING APPARATUS

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VENTILATING MACHINERY, New
Model encased, self-oiling gear; Standard
Model Open Gear. Lord & Burnham, 1183
Broadway, N. Y.

VIOLETS.

5000 clumps California violets, ready now,
finest stock in the west, 4 1-2 c. 250 or
more at 4c. J. W. Dunford, Clayton, Mo.

WIREWOK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 38 40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

All standard frames in stock. Special de-
signs made to order in hurry-up time. N.
F. McCarthy & Co., 84 Hawley St., Bos-
ton, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for
price. Helm Carnation Support Co., Con-
nersville, Ind.

WHOLESALE FLORISTS**Boston**

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WHOLESALE FLORIST.

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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wideawake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

WANTED—A man to take charge of the growing of Roses, Carnations and other plants usually grown in a retail establishment. First class references required. State wages and experience in first letter. About twelve thousand feet glass. F. G. Danforth, Skowhegan, Me.

WANTED—By middle of September, young man of refinement and good address as clerk in florist's store in suburb of Boston. Will be required to purchase stock and have general charge of store. First class references required. Address P. O. Box 3657, Boston, Mass.

TO LET

GREENHOUSE TO RENT AT WELLESLEY, MASS.

for term of years, greenhouse 23x275 ft., with dwelling, five rooms and bath. Apply to

WELCH BROS.,
226 Devonshire St., Boston

MEETING OF WASHINGTON FLORISTS' CLUB.

The September meeting was held at the usual place, Tuesday evening, Sept. 3. Despite the heat and threatening elements the attendance was normal. The club had the pleasure of having Jas. Carstairs of New Rochelle, N. Y., with them for the evening. As this was the first meeting since the convention recently held in Philadelphia there was much to be said of the good times enjoyed there. It was voted that proper thanks be returned the Philadelphians for the hospitality extended members of W. F. C. whilst in that city. The handsome cup won by the Washington florists' bowling team was exhibited. At this point J. R. Freeman took the floor, and thanked his friends for the manner in which they worked for his election as president of the S. A. F. We hope it is only an honor deferred and that all in good time the recognition he so richly deserves may be his. A vote of thanks was tendered John Lewis Childs for the beautiful display of gladioli made at the last club meeting, although, —thanks to the express company—they were not received in time to be acted upon by the awards committee, they were none the less enjoyed. It was voted that in future the awards committee submit their decision to the club, to be held in abeyance till next meeting and then acted upon by the entire club.

It was announced that one of the police precincts has ordered bay trees and other shrubbery displayed on the sidewalks to be removed. Secretary McCauley was instructed to take up the matter with the authorities and report at next meeting.

There has been an invitation extended the club by R. Vincent & Sons to visit their dahlia farm on Sept. 17.

The October meeting of the club will be "dahlia night."

PUBLICATIONS RECEIVED.

Sixteenth Annual Report of the Board of Park Commissioners of the City of St. Paul. An interesting detailed report of the operations of maintenance for the year 1906, illustrated with full-page half-tones, and a frontispiece portrait of the late Joseph A. Wheelock, president of the Park Board for thirteen years.

List of the plants cultivated in the Botanic Garden at Brussels, Belgium, by Louis Gentil, Superintendent of the Garden. Contains two beautiful views in the conservatory and rockery. A very extensive list, comprising 1000 genera, 3200 species and 370 horticultural varieties, giving synonyms, authorities, etc.

OBITUARY.

Mrs. Mary A. Furey, a daughter of the late James Mallon of Brooklyn, N. Y., died at her summer home at Madison, N. J., on August 27.

Charles Mitchell, gardener to John S. Lyle of Tenafly, N. J., died after a brief illness on August 22. He was born in Aberdeen, Scotland, fifty-three years ago, had been in this country for thirty years, the last six having been spent at Tenafly. He leaves a widow and two children.

?

Is Your Name In The Above List? If Not, Why Not?

A LABOR SAVING DEVICE.



Here is an illustration of a device that everybody will want. A bright clean window is indispensable to the

florist and this specialty of The Foley Mfg. Co., of Chicago, insures it to anyone using the device. The hose and brush together are an invincible com-

bination. As a labor-saving invention it is in the front rank and, best of all, it is cheap. Watch for the advertisement which will shortly appear.

THE FLORISTS AND THE GLASS TRUST.

At the session of the Society of American Florists, in Philadelphia on Tuesday last, the Glass Trust was scored and a demand made for a revision of the protective tariff, under the provisions of which this Trust is enabled to charge high prices for its products.

The tariff discussion occurred at the close of the session, when Benjamin Hammond of Fishkill, N. Y., reported for the legislative committee. He told how application had been made to Washington praying for relief from the high prices charged for greenhouse glass, and urging tariff revision. Mr. Hammond read a letter received by the committee from Representative Sereno E. Payne, which contained an argument in favor of high tariff. Representative Payne said that glass amounting to \$54,189,856 was imported in 1896, and that this importation had fallen to \$17,933,000 in 1905. He argued that American wage earners were receiving the millions that formerly went to Europe. In conclusion, he reminded the florists that they were prospering now, whereas under the old Wilson tariff their business was wretched.

But the members of the society declined to be satisfied with Congressman Payne's

specious plea, which they characterized as "political bosh." They demanded to know the difference between the cost of glass manufactured in this country and that manufactured in Europe. They insisted upon knowing "to what extent the Glass Trust is milking the florist cow." They asked why it was that they are now compelled to pay \$3.70 per box for 16x24 greenhouse glass which some years ago they could buy at \$2.92. Only one member, a Philadelphian, by the way, was in favor of "letting the tariff alone," while one other, a man from Pittsburg, the headquarters of the Glass Trust, defended the combination and justified the increase in prices. Further remarks were made to the effect that Secretary Taft's promise of tariff revision after the next Presidential election is an old story, and that meanwhile the glass manufacturers are "laughing in their sleeves at the manner in which they are hoodwinking Congress and the American people."

But they will not be able to hoodwink Congress and the people indefinitely. So many incidents as this outbreak among the national organization of the florists are suggestive. They indicate an uprising of the people against the exactions of the Trusts, and this uprising may become formidable at the next election. It may result in send-

ing to Washington a House of Representatives which will compel even a Trust-ridden Senate to consent to a reduction of the tariff in the interest of the great body of consumers, instead of the interest of the Trusts. Wilmington, Del., Every Evening.

Nothing illustrates better the ramifications of the tariff than the issue raised by the florists regarding the duty on glass. This is imposed for the stimulation of the American glass industry, but the stimulation consists of a heavy tax upon other American industries, one of which is floriculture. The greater part of the glass is not used in making greenhouses; it is used in building houses, and every man who builds a house is just as really interested in the glass duty as the florists are, though he may not be so conscious of it because he buys a smaller amount.

Evidently the nonsense that the foreigner pays the tax makes no impression on the florists. They know they pay the tax, and they know, also, that they pay the tax whether they use imported glass or not. The purpose of the duty is to enable the domestic glass makers to get higher prices for their product.

The price of glass has advanced recently 25 per cent. The florists appealed to the chairman of the Ways and Means Commit-

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Take a can of this preparation, dilute to four times its bulk with water, and wash or spray your palms, ferns, aspidistras, smilax or any plants subject to bugs or vermin and **YOUR PLANTS WILL BE CLEAN No alkali. Nothing deleterious. Absolutely Infallible. Dries at once. Read what others say of it:**

Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
Yours very truly,
GEO. A. SKENE.

Mr. Andrew Wilson—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
Florham Farms, Madison, N. J., December 8, 1906.
Yours truly,
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ANDREW WILSON, Dept. 5.

SUMMIT. N. J.

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tee and of course got no comfort from him. He pointed out that the imports of glass were less in 1905 than in 1896 and offered this as a complete answer to them. The American manufacturers have been driving imported goods out of the market pretty generally and would have done more of it if the tariff had not enabled them to maintain high prices.

Our present purpose, however, is not to discuss the merits of the case presented by the florists or the sufficiency of the reply of Congressman Payne. We direct attention at present to the evidence that the American pays the tax, that whatever benefit the tariff affords to one American interest it affords at the expense of, and through burdens imposed upon, other interests and the general consuming public. The tariff creates no values at all; it simply takes a lot of small sums from a great many people and combines them into a few large sums for a few beneficiaries of the system.—Philadelphia Record.

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Eggertsville, N. Y.—R. E. Boettger, 125 ft. house.

Menomonie, Wis.—Joseph Wolfe, house 28 x 50.

Benton Harbor, Mich.—F. L. Tornquist, house 16 x 50.

Ashtabula, O.—Griswold Greenhouse Co., vegetable house.

E. Pepperell, Mass.—Bertha Farnsworth, 20 ft. addition.

San Francisco, Cal.—N. Peterson, one house; Domoto Bros., rose house.

Kirkwood, Mo.—H. Niemeyer, two houses, each 17 x 100; E. P. Erker, one house, 20 x 100.

Meriden, Ct.—Rowden & Mitchell, chrysanthemum house 18 x 60; carnation house 20 x 75.

BUSINESS CHANGES.

Lloyd Swarthout intends to raise vegetables in his houses at Washington, Pa., recently vacated by J. Seamans & Co.

W. L. Drake & Co., of Kenosha, Wis., are enlarging their greenhouses on Chicago street preparatory to transferring there the stock of the Kenosha greenhouses just purchased by them. The Kenosha greenhouses will be torn down eventually.

As briefly noted in our issue of August 10 William F. Spry, Manchester, Mass., has sold his greenhouses and florist business to two private gardeners, Ascel Magnuson for

five years gardener to Mr. G. H. Black at Manchester, and Peter Hylan, 5 years at the Larz Anderson estates in Brookline, Mass., and Washington, D. C. Mr. Hylan will have charge of the greenhouses and Mr. Magnuson will attend to the landscape work.

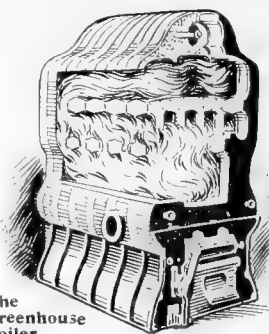
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Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 3 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
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2000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
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144 6 " " "	3.16	12 14 " " "	4.80

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PLANT BED CLOTH

gives shade and still allows free circulation of air.

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PERLESS
Glazing Points are the best.
No rights or lefts. Box of 1,000 points 75 cts. postpaid.
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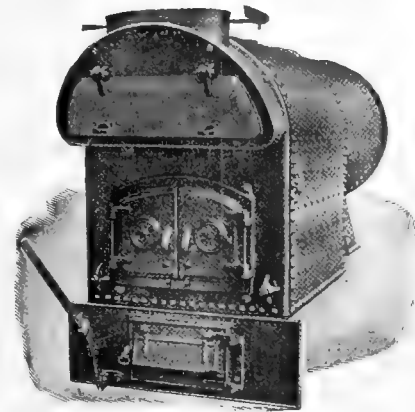
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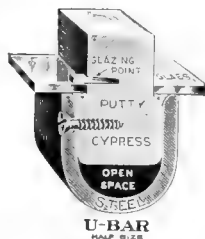
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HORTICULTURE

Vol VI.

SEPTEMBER 14, 1907

No. 11



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A Plea for More Shade Trees

The planting of a tree for shade, the placing of a shaded bench or anything that would conduce to the comfort of one's fellow-creatures was accounted in the middle ages an act of piety, springing from a gracious heart. In our day with its rush and pressure of business, we have little time to give to these gracious aspects of the more leisurely life and the old-time ideas are liable to be quite forgotten.

An hours' ride through any of our cities is sufficient to give the observer an absolute conviction of the need of a more liberal use of trees for shade and ornamentation. Art must win favor, architecture praise, but let us also "Consider the trees".

In days of extreme heat such as we have experienced this summer, when the sun's rays pour down on our streets, making them a veritable furnace to go through, what a difference in comfort it would make to have a shade tree wisely planted wherever space would allow. Of course in streets whose width is such as not to allow for traffic as well, this is out of the question, but how often one sees space where a row, group, or even a single tree could very well be planted, adding comfort and beauty to the surroundings, while in the case of many streets which run north-east and south-west a row of trees planted on the south-western side would be a real solacement.

We have not a vestige of an excuse for saying there is no room for trees on many of our streets if we will only consider for a moment the many forms of trees at our disposal. Is our space limited? Then use those trees which are more or less columnar in form such as the Lombardy poplar (*Populus fastigiata*), an excellent subject where quick growth is needed and one which will stand all the pruning you like to give it, while *Populus monilifera*, though not of upright form can be restricted by annual pruning to any extent.

Where a tree, columnar in growth and practically immune from the common insect attacks, is wanted, plant the male form of the Maidenhair tree (*Ginkgo biloba*), a tree of great beauty and one deserving of all that has been written in its favor. It is as yet but rarely seen as a street tree, but where it is it invariably seems to thrive as well as most trees. In the great family of conifers it holds a unique position, in that it is about the only member of it which can claim to be a good city tree.

Where space is such as to make the planting of large spreading trees admissible, we have quite a number to choose from. Among the most desirable are the Norway and sugar maples also the oriental plane, all of which are planted extensively and may be considered old friends, affording delightful shade with their great leaf surface. The European horse-chestnut is a grand tree where it is afforded space to develop its true form, its flowers in May vieing with many of our greenhouse plants.

Where trees of rapid growth are wanted for large spaces, *Catalpa speciosa* and the silver maple (*Acer dasycarpum*) commend themselves as worthy subjects. The former is exceedingly attractive when in bloom with its abundant panicles of white flowers.

The alleged difficulty experienced in establishing oaks is sometimes magnified. I think, for if the work of planting is done in a thorough manner by a thorough man who knows his subject, there would be less mortality and good results would generally follow, but often the one that does the planting never thinks of helping

the tree in its efforts to recover from the shock of removal by a wise pruning and mulching. Probably the best of the oaks for street planting are *Quercus rubra*, *Quercus coccinea* and *Quercus palustris*, all three being fairly clean trees whose foliage colors delightfully in the fall. Where a person wishes to plant for posterity nothing is more fitting than the oak whose spreading branches will still afford comfort and shade to our descendants and serve as a lasting monument to the memory of the planter.

Edwin Matthews.

Ginkgo biloba

I have followed with interest the notes on the *Salisbury* by Mr. Hans and Mr. Lonsdale. There are several points, however, wherein I do not quite agree with either.

One point that particularly interests me is the question of forms. Of the thousands I have seen growing in nurseries—and all have been grown from seed—90 to 95 per cent. are pyramidal or conical in form resembling very closely the well-known Lombardy poplar. All who have been in Washington, D. C., will recall the famous avenue of Ginkgos and these are, too, tall and pyramidal in habit. I am confident this form may be considered the type.

Mr. Lonsdale speaks of the trees around Horticultural Hall in Fairmount Park as illustrating an entirely new form and yet they are almost identical with what I consider the type, though I will say they are just a little more compact than usual.

Mr. Hans speaks of them as a good shade tree and as far as foliage is concerned, it is true, but I question their value in point of bushiness unless the trees are headed and compelled to spread.

When Mr. Temple introduced his "pyramidalis" the general comment was that it was far from being distinct and was more like the common type.

I have made inquiry among men who gather seed and find some interesting points. They all agree that wherever a seed-bearing tree grows the male form is present confirming the idea of the Ginkgo being dioecious. A singular thing about the female trees is that they are more open in habit resembling those illustrated with Mr. Hans' article. I cannot state whether this distinction exists in all seed-bearing trees and can be used as a means of distinguishing them.

It would be interesting to know if any readers have seen a tree, standing apart from others and yet bearing seed. It would have to be removed some distance as I believe plants standing in different locations will often be fertilized, despite the distance.

This was illustrated by two hollies which I know of, one continuing to bear seed year after year until the other—a staminate form—standing quite a distance away was destroyed from which date the first named failed to have berries.

Murray Chandler

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parcels post will certainly be a great boon for the horticultural industries, and we hope our progressive Postmaster General may succeed in promptly putting this reform into operation. Opposition of the most strenuous character is sure to be encountered as soon as the advocates of a parcels post begin to get busy in Congress. We advise our readers to do what they can individually to stir up local sentiment in favor of the movement and see to it that their representatives in Congress are fully apprised of their earnestness in demanding favorable action on this long-deferred reform.

Help the local flower show

Is there to be a flower show in your neighborhood this fall? If so, be sure to give it open-hearted encouragement; if not, then make one of

your own in the way of a "fall opening" or something of that sort. Whenever and however there is launched any public project for an affair where plants and flowers are to be given prominence the man of all men who should take off his coat and give it a boost is the florist who depends for his business support upon the community interested. If there are others in the same line of business they should be induced to bear a hand also. The bid for future advantage should be made on the broad policy of bringing the goods rather than the individual directly to a position of higher favor in the public estimation. The first essential is to develop a demand for the goods and no agency that can be employed can compare with the local flower show as conducive to that end. Contribute, then, of your best and show the community the possibilities in advanced garden and house culture. Don't compete against them and thus discourage them; enter as "not for competition" and let them have the prizes. Your reward will come in another and more profitable form.

A question of the hour

A gardener of unquestioned ability, industry and good habits, with a fourteen-year record in his last position (commercial) called at our office recently in quest of a new situation. He told of having applied to the proprietor of a very large establishment and having been offered a position at \$1.75 a day. This is the price of unskilled Italian labor. The incident is not an exceptional one but the issue it brings up is one of very serious importance which is bound to find prominence in the immediate future. When we consider economic conditions as they exist today and think how far a dollar will go it must be plain to everyone except the man of frozen heart and iron hook that the wages of skilled gardeners, whether employed in a commercial or private capacity, are inadequate for the knowledge and service required, especially in the latter class. There is one quality in the good gardener that is rarely, if ever, paid for—one of which but few other industries can take advantage—the love for his work which is nearly always a part of his make-up. "To business that we love we rise betime, and go to't with delight," is a sentiment peculiarly applicable to the worker in horticulture. Long and irregular is the "day" of the gardener and of his brother the retail florist who rarely complains even when the day extends far into the night or because Sundays and holidays exact even greater sacrifice. For the well-being of the profession and that it may offer inducement to men of the highest ability to enter the ranks, and espousing the cause of the "square deal" for everybody, let us earnestly consider what can be done to take the gardener now and forever out of the "day laborer" class.

For a parcels post

Among the several postal improvements recommended by Postmaster General Meyer are a domestic parcels post and postal savings bank. The

Pear Blight

Pear blight has probably been the cause of more losses to California fruit growers than any other disease. In fact, its ravages have been so uncontrollable that the pear tree in many parts of the state, it a thing of the past. Thousands of dollars have been spent during the last few years in hopes that this disease would be checked. During the last three years the State University has had from four to six men in different parts of the State demonstrating by actual work the methods best adapted for its control. As this disease is also in the east, perhaps a few words upon its history, appearance and treatment will not be out of place.

Pear blight was first described by the Massachusetts Society for the Promotion of Agriculture in 1792. At this time it was discovered on some apple trees in New York State. Later it was found in Long Island, New Jersey and Pennsylvania. Its presence seems to be noticeable in many of the early orchards through the East and Middle West. It is interesting to note that it has never been found in Asia or Europe; the countries where the pear and apple tree are native. It is to be found not only on them, but also on the quince, hawthorne and wild plants of the pome family. It was not until 1878 that the cause of the disease was known and this was discovered by the pioneer plant pathologist, Professor T. J. Burrill. As new orchards were planted in the Middle West, the blight followed them, but it was not troublesome in California until the last eight or ten years. When it did gain entrance it made remarkable headway, due to the favorable climatic conditions for its growth. It is found upon all varieties of pears, but the Bartlett seems to be affected more than the others.

Pear blight is caused by bacteria (*Bacillus amylovorus*.) These microbes are extremely minute and can be seen only through a very high power microscope. They consist of a single elliptical or round like cell and are the smallest living vegetable organism known. So much for the history of pear blight.

ITS APPEARANCE

It is first noticeable in the spring of the year, a month or so after the blossoming period. If you will look at the flower clusters carefully you will observe that where the blight is present, they will look shrivelled up and those that are affected badly will appear as if dying, and upon these, small globules or drops of gum will be seen. In a short time you will probably observe the tips of the young shoots or twigs dying. If the weather conditions are favorable for its growth, these small twigs will not only die, but also the branches from which they grow. When the blight gains entrance to the larger limbs, it progresses very rapidly. When the bark is scraped off the diseased areas you will notice that the cambium layer, which is normally white, has turned red and where the bark is not too thick, large red drops of gum are exuding, later solidify and turn black.

As the disease progresses, it will not stop in the limbs but will continue to spread in the trunk and roots. The writer has seen the blight kill roots two and sometimes three feet under ground. Not only are the weaker trees affected but many times the best, largest and most healthful trees will succumb under its ravages.

TREATMENT

The treatment has been discussed before in this paper, so I shall not dwell upon this subject at any length. The only thing to do is to cut it out as fast as

it appears. If it has gained entrance in the twigs only—cut them off before it runs down into the larger limbs. If it is in the larger branches or trunk, cut out the affected portions. In dealing with this disease, great care should be taken to keep all the instruments well disinfected, as these are a quick way of spreading the blight. Corrosive sublimate is the best disinfectant to use. The cuts should also be washed with this material.

Conscientious work is the only way of controlling this disease and the lack of it is the cause of many failures.

S. S. Rogers.

Timely Chrysanthemum Notes

FEEDING.

As the plants are now getting to be a good size and the benches well-filled with roots, they will be in need of liquid feeding to give them the good stout stem, dark foliage and splendid flowers which we all look for with so much anxiety and interest.

The chrysanthemum grower can not be too careful in this matter, as a little carelessness will spoil a whole season's labor. There are several good chemicals on the market that can be used, but the chemicals in most general use are nitrate of soda, potash and sulphate of ammonia; if more than one of these are to be used they should be used alternately in the following proportion, one four-inch pot of chemical to a 50-gallon barrel of water if applied with an ordinary pump or watering can, but if a Kinney pump is used the amount of chemical should be doubled as the chemical is reduced to one-half the strength. This application once a week should be sufficient with a watering of good liquid cow manure given in between.

The plants should be gone over every two or three days, the side shoots taken off and the suckers cut away from the base of the plants to give the buds and foliage on the main stem all the nourishment possible.

FUMIGATING.

The plants should be gotten clear of all insects now if possible, for later on when the buds begin to show color all fumigating will have to be stopped.

The most effective method we find is to lay papers along the front walk big enough to hold a double handful of tobacco dust, say ten or twelve to a hundred-foot house making a small hole in the top of the dust and inserting a short piece of thick twine about an inch long to be used as a wick. Pour just enough kerosene on the string to ignite the dust, close the house tight letting it remain so until morning. If one fumigating does not destroy the flies this should be done two or three nights in succession. In buying the dust the grower should be sure to order the fumigating kind as the others will refuse to burn.

SUPPORTS.

The supports for the plants should be looked after and put in good shape so that they will be able to hold the flowers in position when they become fully developed, as the weight of a crop of flowers is far more than one would think.

Andrew McHenry

AFTER ADJOURNMENT.

C. L. Powell the florist, will open a floral salesroom in the Robert & Jones undertaking rooms on North Main street, Wednesday. Especial attention to weddings, party and funeral orders. Call and see us.—So. Bend (Ind.) Tribune.

We suppose there are people who would look upon an undertaker's room as an appropriate place in which to order wedding flowers, but it is the last place we want to have anything to do with.

Florists No More.

A sign painter was asked to call at a florist's shop in Columbus avenue. "I know what he wants," said the painter. "He wants me to paint out the word 'Florist' and substitute 'Floral Artist.' Every florist of any importance the town over has gone back on his former title. Just look at their stores and you'll see that. In all the streets where large flower stores abound it is almost impossible now to find a florist; they are all floral artists."

Thus saith the New York Globe. It's all right. We find now tonsorial artists, boot black professors, and so on, and why not equal honors for the aspiring flower seller. Columbus Avenue can supply all grades of them, too.

The Reverend Vicar-General of the Roman Catholic Diocese of New Hampshire has uttered a bitter denunciation of the custom of using flowers in connection with funerals. He characterizes it as a foolish fad and closes with the admonition: "Bring no more flowers here. Keep them from the church."

The futility of such tirades from men in whose hearts the tender chords are tuneless has been repeatedly demonstrated. They may exercise their authority to the extent of forbidding the bringing of flowers within the church doors, but the sympathetic sentiments which are at the foundation of the practice of placing flowers on the bier of loved ones are beyond the control of any human edict.

PERSONAL.

Colin Campbell of Montreal has returned from his trip to Scotland.

Mr. and Mrs. Robert Klagge of Detroit are sojourning in Buffalo at present.

Wm. G. Lehr and Miss Marie Bothe were married at Brooklyn, Md., on August 28.

Charles Howe, Dover, N. H., has returned home after a month's absence in England, France, Germany and Scotland.

W. J. Burnett has relinquished his position at Orange, N. J., with A. E. Van Gaasbeck and will go into trade with his father.

Henry Matz succeeds Mr. Brown as treasurer of the Nassau County (N. Y.) Horticultural Society, the latter having removed from Glen Cove.

William F. Bassett, florist of Hamilton, N. J., has just passed his 87th birthday and is the oldest male resident of the town. He is still in robust health and active in business.

ZONAL PELARGONIUM DAGATA.



M. Bruant's introductions are acknowledged to be the standard of geraniums the world over, and represent the highest development to which the geranium has attained at the present time. Among the newer varieties, especially in the Bruant race, are some which come the nearest to the American standard, and the grandest of these is unquestionably Dagata, the premier of the 1905 novelties, an illustration of which is given herewith. The plants are dwarf and compact, but robust in growth and the leaves are of a leathery texture, dark green with a slight zone, and measure sometimes as much as ten inches in diameter. The flowers are semi-double, of unusual

size and substance, and are borne in gigantic trusses resembling hydrangeas in size and produced in great profusion on long stiff stems.

The color is mauve rose, with a large white blotch at the base of the upper petals. Having all the good points of the Bruant race in habit, growth, resistance, ease of culture and uninterrupted blooming, Messrs. Vincent & Son, who are offering it in this country, feel justified in pronouncing Dagata the finest pink geranium for general use up-to-date. It has been favorably commented upon by the "Revue Horticole" and won highest honors at the International Exposition in Liege.

WIAntenock.

Our frontispiece gives a view of the new flower gardens at Wiantenock, the summer home of Mr. L. O. Peck, at Redding, Conn. From our correspondent, Mr. Thomas Leahey, to whom we are indebted for the photograph, we learn that Mr. Peck is one of the first New Yorkers to make a summer home in this beautiful section and that before his advent flower gardens and greenhouses were

practically unknown there. Now many families from New York are being constantly added to the colony and each year sees many additions to the summer cottages, with every prospect that in a short space of time this neighborhood will take its place as one of the most attractive and prosperous summer resorts in Connecticut. Looking south a fine view is obtained of Long Island Sound and to the westward may be seen historical Putnam Park, a beautiful reservation under the care of the State of Connecticut.

NEWS OF THE CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The September meeting of the club was held at the new headquarters, Murray Hill Lyceum, 160-164 East 34th street, last Monday evening, fifty-seven members being present. Among the features of the evening were an interesting address by Rev. McGee Pratt, the resignation of Treasurer Wheeler because of removal to California, and the selection of his successor, the enthusiastic reports of experiences at the Philadelphia convention by Messrs. H. A. Bunyard, John Young, C. H. Totty, P. O'Mara, John Birnie, Chas. Lenker, Harry Turner, J. B. Nugent and others, and the reading of a characteristic poem on the same topic by J. Austin Shaw. The handsome silver cup won by William Duckham in the Convention Bowling Tournament was on exhibition. For the unexpired term as treasurer W. F. Sheridan, J. K. Allen and John Donaldson were nominated. Mr. Donaldson withdrew his name and Mr. Sheridan was elected by the close vote of 23 to 20. S. A. F. President-elect F. H. Traendly addressed the meeting, urging upon every member the duty of taking an active part in making the convention at Niagara Falls next summer a credit to the city and state. The outing committee made its final report, turning in the sum of \$51.00 to the treasury, and was discharged with the thanks of the club for the manner in which they had fulfilled their arduous task. An amendment to the by-laws was presented for consideration at the October meeting, establishing life membership in the club at \$75.00. The treasurer's final report showed a balance of \$2,450.39 in bank to the credit of the club.

John Lewis Childs sent for exhibition a splendid collection of gladioli blooms, including such varieties as America, Alaska, Princeps, Mrs. Francis King and Blanche Melrose, which received an award of high commendation from the judges. Harry Turner of "Castle Gould" showed a set of six well-grown plants of *Celosia pyramidalis* in six distinct colors, which were given a well-merited certificate of merit.

The new rooms of the club are large and airy, with abundant light and everyone was delighted with their fitness for all requirements of the meetings.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the monthly meeting of the New Bedford Horticultural Society held last Monday evening, the main topics for discussion were the staging of flowers for exhibition, with regard to effect and the necessity for the improvement in the quality of the dahlia by strengthening the stem—led by Wm. Keith,—and the use of herbaceous plants for cemetery planting—led by Thomas White.

Mr. White considered, that chiefly owing to their way of leaving a bare or untidy spot after the blooming period, the herbaceous plants were not an unqualified success for cemetery planting. In the discussion which fol-

lowed, some useful information as to the treatment of herbaceous plants was brought out. In the monthly exhibit a good number of dahlias and gladioli were shown, the main part of them by amateurs.

Owing to the slow manner in which the bills are coming in the executive committee were unable to make a report upon the late exhibition. While this laxity on the part of creditors is somewhat provoking, it shows that the credit of the society is good, locally at least.

THOMAS WHITE.

PITTSBURGH AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The members hurried through the routine business at the meeting Sept. 3d, for it was "Gladiolus Night" and all were anxious to inspect the beautiful exhibits.

Jno. Lewis Childs sent a large exhibit of his newer sorts, including Blanche, a large white flower in form and style resembling America, Harlequin, flaked, Los Angeles, Lydia, Spot, Contrast, a fine flower after the style of 1900, but a little lighter scarlet and the white in the throat more pronounced, Geo. B. Remsen, Cardinal, Melrose, Sulphur King, Sunlight, Gov. McCormick and Corsaire, a very dark red, and others; a very taking exhibit.

Frank Banning, Kinsman, O., displayed Augusta, America, No. 5, a beautiful unnamed pink seedling of large size, Canary Bird, Klondyke, Princeps, Mephistopheles, Octoroon, May, and Niagara, a very fine white, spaded yellow. This entire display was remarkable for the large spikes and thrifty appearance.

Nathan Smith & Son showed chrysanthemum Golden Glow. Buds taken July 1st, cut Sept. 1st.

Jno. F. Zimmermann, gardener at Dixmont Hospital, showed hibiscus, early flowering cosmos, scabiosa, zinnias, phlox, and other border plants.

Schenley Park, J. W. Jones, foreman, showed some good asters. One of the park employees declined to tell the composition of a solution used by him to keep the aster beetle from the flowers. This was the first time in the history of the club that any one present at a meeting has kept secret when questioned, any thing that would be for the good of the craft in general, and it created some little sensation.

When we took up the S. A. F. convention at Philadelphia, there was just one voice and that was of unstinted praise for Philadelphia hospitality.

Subject for the October meeting—Ferns.

H. P. JOSLIN, Secretary.

AMERICAN CARNATION SOCIETY.

For the meeting and exhibition in Washington, D. C., Jan. 28th to 31st, inclusive, 1908, the Henry F. Michell Co., Philadelphia, Pa., offer a silver vase, value \$40.00, for the best 100 blooms of carnations in four varieties, 25 blooms to a vase; competition open to private gardeners only.

ALPERT M. HERR, Sec.
Lancaster, Pa.

THE AMERICAN ROSE SOCIETY.

The Bulletin of the American Rose Society with the proceedings of the year, embracing the very able papers of Theo. Wirth, E. G. Hill and M. H. Walsh, is now in press and these papers with the discussions which ensued, in which some of the ablest men took part, including Messrs. W. C. Barry, W. H. Elliott, John Cook, Wm. A. Manda, Adolph Farenwald, E. G. Hill and P. O'Mara are well reported.

The certificates to be sent to life members and the certificates for exhibitors of new roses, will soon be mailed.

The Chicago people are already astir with promise of everything that can be asked for to boom roses in every shape at the next meeting and the western people say to the eastern folk "Join us with both hands."

BENJAMIN HAMMOND, Sec.

NEW ENGLAND DAHLIA SOCIETY.

The New England Dahlia Society held its first annual meeting in Horticultural Hall, Boston, on Sept. 4. These officers were elected: President, Henry F. Burt, Concord; vice-president, William F. Turner, New Bedford; secretary, Morris Fuld, 5 Union street, Boston; treasurer, N. Allen Lindsay, Marblehead.

CLUB AND SOCIETY NOTES.

The September meeting of the New Jersey Floricultural Society held at Orange on the 6th instant, was called to distribute the schedules of the Dahlia show planned for Oct. 4. There were but six exhibits and a scattering attendance.

The directors of the Arkansas State Floral Society have arranged to give prizes each year for the three most beautiful yards in Little Rock. A first, second and third prize will be given, the judges to be selected from the directors of the society. Appearances from the front of the yard to the middle of the street will be considered in awarding the prizes. Everyone can enter this contest, as the awards will be made on the artistic taste shown and the care exercised rather than on the money expended.

The Gardeners' and Florists' Club of Boston will hold its first meeting for the season on Tuesday evening, September 17, at 8 o'clock. Robert G. Leavitt of the Ames Botanical Laboratory, North Easton will deliver a lecture on hybridization. Mr. Leavitt is an expert on scientific topics as evidenced by the communications from his pen which have from time to time appeared in HORTICULTURE. Exhibits of geranium plants from young gardeners for prizes offered last fall will be made at this meeting. Other exhibits are also expected. The next "field day" of the club will be September 21, when a visit will be made to the dahlia farm of W. W. Rawson & Co., of Marblehead. Mr. Rawson will have a special car on the 12.43 train at North Station for Marblehead. Members and friends are invited to take this train; transportation will be free. Lunch will be served on arrival at Marblehead.

During Recess

*"Hang Sorrow; care will kill a cat
And therefore let's be merry."*

The Albany (N. Y.) Florists' Club held its first annual outing and clam bake on September 1. A number of Utica florists were present and all had a good time.

During the afternoon a spectacular game of baseball was engaged in upon the wide meadow below the grove. For over two hours a team representing the growers contested with a second team representing the retailers with the result that when the game came to a close at the end of the fifth inning the growers were ahead by a score of 13 to 6.

The battery for the growers was Gabriel of Rhinebeck and Richard of Watervleit, and for the retailers, Butts of Rensselaer and Thompson of Watervleit. The game settled a long standing score between the growers and retailers as the last game played between the two teams resulted in a tie.

Following the baseball game a short program of athletic sports was run off. In the fat men's race there were three contestants. They crossed the tape at the finish amidst the cheers of the onlookers in the following order: John Butts of Rensselaer, James H. Snyder of Rhinebeck and John Moran of Watervleit. The winner was awarded a box of cigars.

In the race for other contestants, Paul Gabriel of Rhinebeck came in first with John Warren of Watervleit and Arthur Smith of Slingerlands following in the order named.

In the hop, skip and jump contest George Russell was declared the winner, although no measurements were taken beyond comparing the distances between the heel marks in the turf. T. J. McDonough was second and Fred A. Danker, third. A palm was given to the winner of this contest.

In the boys' race, Abraham Myers came in first, August Eckert, second, and John McMahon, third. The winner was awarded a five dollar gold piece and the second contestant three dollars in cash.

The officers of the Albany Florists' Club are: President, William C. King; vice-presidents, Edward F. Meany and Frank M. Briere; treasurer, William C. Kurth; secretary, Thomas F. Tracy, Slingerlands, N. Y. The club was organized on April 29 of the present year and has a large and growing membership.

The annual outing of the employees of William Scott Co., of Buffalo, was held Wednesday, when 20 from Buffalo arrived on the noon train, and were met by the employees from Corfu. They had dinner at the Union Hotel. A ball game was played between the Buffalo employees and the Corfu employees, Corfu winning, 19 to 10.

A GROUP OF CANADIAN FLORISTS.



This is a group photograph of the members of the Canadian Horticultural Association in attendance upon their very successful annual convention at London, Ont., on August 29. It cannot be denied that they are a body of remarkably fine looking gentlemen and this includes two or three whom we recognize as not yet full-fledged Canadians. But where are the ladies? Our S. A. F. would as soon think of disbanding as to have its "pictur" took without an abundant admixture

of the fair sex. We understand that our sister society across the line will meet next year at the same place as the S. A. F. Let us hope that it will also be at the same date and the fraternizing will do us both lots of good. And if our Canadian friends are short of beautiful ladies to add grace and tone to their Niagara Falls photograph, perhaps we may be persuaded to loan them some that will fill the bill; but just for a few minutes only, for we can't spare them long.

PLYMOUTH EMULATES DAYTON.

In these days when we hear so much of the soulless corporations it is refreshing to have a chance to say a good word for one of them. The Plymouth Cordage Co., of Plymouth, Mass., held their fifth annual field day and exhibition on Labor Day, Sept. 2 and, despite the somewhat cloudy weather, they had keenly competed games in the morning and a baseball game in the afternoon between the team of employees and the Everetts of Everett, Mass. The exhibition is open only to employees of the Cordage Company and the prizes offered are for fruit, flowers and vegetables, industrial work, poultry, and cookery. To those of us who can recall the horticultural exhibitions of the old country (amateur section), it was decidedly a revelation to find competition so keen amongst this same class here, and to see the interest manifested and worked up to such a degree in the short period of five years. Not only are prizes offered as above noted, but prizes are also offered for best-kept gardens, best lawns of corporation houses and houses owned by employees. The company will supply on application seed and shrubs, and for this purpose have established quite a nursery of their own. The show of vegetables on this occasion, considering the dry season—a season that has been particularly trying to the grower in the sandy soil of Plymouth—was

by far the largest of the five exhibitions. One of the collections consisted of more than thirty different vegetables, prizes being offered for collections as well as individual exhibits. The fruit show was also very good, although perhaps other seasons have offered better showings in grapes and pears. One exhibit had a collection of ten varieties of pears and carried off the cup. In flowers there were many very interesting collections. The cut flowers were particularly good, and one exhibitor had a collection of sixty-six varieties and remarked that he was satisfied to have done this once, but it had cost him a great deal of time to get them all to look as well as they did. The industrial and kindergarten work was also most interesting as well as the children's department, where prizes were offered for cut flowers. It was certainly an exhibition that far exceeded anything seen anywhere in Massachusetts, and the credit for it lies wholly in the industry and ambition of the employees of this concern, spurred on by the genial and energetic treasurer, Mr. G. F. Holmes, who has been untiring in his efforts to promote the success of the annual field day, and who remarked that it was gratifying that their annual exhibition should have grown from what could be held in a large room of a private house to that of two large marquees in the short space of five years.

W. SKAKLE.

THE EXHIBITION SEASON

RECENT FLOWER SHOWS.

Floral Society of Avon.

The first annual exhibition of the Floral Society of Avon, N. Y., was held on August 28. The judges were Chas. Larrowe of Cohocton and E. A. Higgins of Avoca. It was a very successful affair and was largely attended.

Fairport Floral Society.

The Fairport Floral Society opened a splendid exhibition at Fairport, N. Y., on August 29. In nearly all of the 48 classes in the prize schedule there were many entries. George Arnold and Frederick Fisher were the judges.

Floral Society of Pittsford Grange.

The floral exhibition at Pittsford, N. Y., under the auspices of the Floral Society of Pittsford Grange which opened on August 30 was a big success and largely attended by town and outside people. There were 125 entries for prizes. It is very gratifying to note that the Patrons of Husbandry are giving attention to the beautiful as well as the useful products of the soil.

Grand Trunk Horticultural Society.

The fourth annual exhibition of the Grand Trunk Horticultural Society was held at Port Huron, Mich., on August 29 and 30. The display was staged in the literary and scientific institute, the interior of the building being a mass of flowers. M. Ullenbruck and Wm. Asman of Port Huron and A. McLean of Sarnia judged the floral exhibits. The vegetables were judged by A. Millett, T. Shumaker and George French. There were over 600 entries by 110 exhibitors and only employees of the Grand Trunk Railway Co. were allowed to compete for prizes.

Melrose Horticultural and Improvement Society.

The Melrose (Mass.) Horticultural and Improvement Society held their annual fall exhibition on September 7. Garden flowers such as phlox, gladioli, dahlias, begonias, etc., were shown in gorgeous array. Fruits and vegetables were also well displayed. Not the least among the attractions were the exhibits by the school children, among whom keen competition has been aroused in the raising for flowers and vegetables. The first prize for vegetables was won by a 13-year-old boy. The judges were S. Parker, D. F. Roy and N. S. Casey.

Southampton Horticultural Society.

The first annual flower show of the Southampton Horticultural Society was held in Agawam Hall, Southampton, N. Y., on September 5. It was a very creditable display many contributions being sent from the spacious gardens and greenhouses in the neighborhood.

Uncle Tommy Warren, the oldest inhabitant, whose age is over ninety, but who is still able to work in his garden, contributed by special invitation a sunflower plant with twenty-eight

blossoms on it. This was given a place of honor and received a special first prize.

The display of table decorations was very attractive.

The judges of the exhibition were William Gray, Owen Owens and James Gilfoyle, all of whom are gardeners. A special committee of ladies, consisting of Mrs. James L. Breese and Mrs. Charles Steele, were judges of the table decorations.

Massachusetts Horticultural Society: The Children's Exhibition.

That the summer vacation was not spent in play by some of the school children of eastern Massachusetts was evidenced in the remarkable showing made at Horticultural Hall, Boston, by the children at their annual exhibition of flowers and vegetables last Saturday. About fifty of the public schools were represented by displays and the individual entries besides were numerous. The products from these school and home gardens showed that the little gardeners had spared neither time nor love in their efforts to produce something creditable and many of the exhibits would have done credit to older hands. The exhibitors were all under 16 years of age—some very young, the winner of second prize for second collection of vegetables from a home garden being a little fellow only 5 1-2 years old. In the main classes ten prizes each were provided and in the others five prizes each, and all were worthily awarded, besides some special premiums. Anyone wishing to know how the girls and boys take to the school garden idea cannot do better than to visit one of these Boston children's shows. In interest they vie with the regular exhibitions of the Society and the products fully equal those of the adults. The children themselves swarm about the tables taking a keen interest and evincing a rivalry that shows how earnest they are in their efforts to excel.

Exhibition at Montreal.

On September 4th and 5th and 6th, the Montreal Horticultural Society and the Fruit Growers' Association of the Province of Quebec, held their annual show in the Victoria Rink, Montreal. The limited attendance, the scanty gathering of the public of Montreal is certainly to be regretted, because the number of attractions as well as the display of our exhibitors deserved much more interest than was shown. Mr. R. Wilson Smith, the zealous president, introduced the Hon. W. A. Weir, Minister of Public Works. In his brief speech, he said that the few acres of snow of Voltaire served to emphasize the prosperity of the Province of today and the present show was a credit not only to the growers, but also to the country. He then declared the exhibition formally open.

The competition in all the section was the closest of many years. Where four and five entries had been heretofore considered a keen contest, we had this year seven and eight. The

competitors arrived from all points of the Province—from Lennoxville, St. Bruno, Pointe Claire, etc.

The prize list is altogether too wide to give it in extenso. Here follow the principal sections:

Collection of decorative and flowering plants, 50 ft. square.—F. C. Smith, gardener to Sir W. Van Horne, 3 Adiantums,—1 W. J. Wilshire, gardener to Mr. R. B. Angus; 2 F. C. Smith. Adiantum Farleyense,—W. J. Wilshire. 3 Anthuriums, 1 W. J. Wilshire; 2 F. C. Smith. 6 Rex Begonias,—1 G. Vreugde, gardener to C. M. Hays; 2 F. C. Smith. 6 Tuberos Begonias.—1 John Piddick, Mount Royal Park; 2 J. C. Eddy, gardener to Mr. A. H. Sims. Begonias Gloire de Lorraine,—1 W. J. Wilshire; 2 J. Dunbar, gardener to Sir Montagu Allan. 3 Caladiums,—1 W. J. Wilshire; 2 F. C. Smith. 3 Crotons,—1 W. J. Wilshire; 2 F. C. Smith. 3 Dracaenas,—1 F. C. Smith; 2 W. J. Wilshire. Dracaena Specimen,—1 W. J. Wilshire; 2 F. C. Smith. 3 Ferns,—1 W. J. Wilshire; 2 F. C. Smith. Tree Fern,—1 W. J. Wilshire; 2 F. C. Smith; 3 G. Vreugde, Maranta.—1 F. C. Smith; 2 W. J. Wilshire. 3 Orchids,—1 W. J. Wilshire; 2 F. C. Smith. Orchid Specimens,—1 F. C. Smith; 2 W. J. Wilshire. Palms,—1 F. C. Smith; 2 W. J. Wilshire. 6 Plants for table decoration,—1 W. J. Wilshire; 2 F. C. Smith; 3 G. Vreugde. Stove-flowering plant in bloom,—1 W. J. Wilshire; 2 G. Vreugde. Coleus Specimen,—1 G. Vreugde; 2 C. A. Smith. Asparagus Sprengeri specimen.—1 G. Vreugde; 2 W. J. Wilshire. Pan of ferns for foliage,—1 W. J. Wilshire; 2 F. C. Smith. 50 Ferns, three in pots,—1 W. J. Wilshire; 2 F. C. Smith; 3 G. Vreugde.

In the cut bloom section the honors were divided between Messrs. C. Thomas Pewtress, C. A. Smith, G. Vreugde, G. Trussel, A. Cole, E. J. Hayward, J. C. Eddy, John Piddick, etc., etc. Outdoor grapes and under-glass grapes had a large exhibit. Vegetables and fruit were all closely contested by the above named gentlemen.

The principal attraction for the growers of plants was certainly the new sport of Lorraine, which received a certificate of merit. We'll hear about it later.

Awards at the Boston Exhibition.

At the Dahlia Show of the Massachusetts Horticultural Society, of which an account was given in our issue of last week, the following awards for flowers were made.

Flowers.

Dahlias.—Show, twenty-four blooms, named varieties: 1st, Mrs. H. A. Jahn; 2d, Johnson Hall; 3d, Edgar W. Ela. Show, twelve blooms: 1st, W. H. Symonds; 2d, J. H. Flint; 3d, J. H. Flint. Fancy, twelve blooms: 1st, Edgar W. Ela; 2d, J. H. Flint; 3d, W. D. Hathaway. Cactus, twenty-four blooms: 1st, W. W. Rawson; 2d, Edgar W. Ela; 3d, N. A. Lindsey. Cactus, twelve blooms: 1st, Johnson Hall; 2d, Mrs. T. O. Richardson; 3d, W. H.

Symonds. Decorative, twenty-four blooms: 1st, Mrs. H. A. Jahn; 2d, W. W. Rawson; 3d, W. D. Hathaway. Decorative, twelve blooms: 1st, Edgar W. Ela; 2d, W. H. Symonds; 3d, Mrs. L. M. Fowle. Pompon, twenty-four vases of three blooms each: 1st, W. W. Rawson; 2d, J. K. Alexander; 3d, W. D. Hathaway. Pompon, twelve vases of three blooms each: 1st, Mrs. L. M. Towle; 2d, Edgar W. Ela; 3d, Mrs. H. A. Jahn. Single, twelve vases of three blooms each: the 3d prize to Edgar W. Ela. Largest and best collection of named varieties, one vase of each: 1st, W. D. Moon; 2d, Mrs. L. M. Towle. Hardy Herbaceous Flowers.—Thirty bottles, distinct species and varieties: 1st, Blue Hill Nurseries.

Fruit.

Foreign Grapes.—1st, Mrs. J. C. Whitin. Apples.—Gravenstein: 1st, L. F. Priest; 2d, Mrs. A. F. Esterbrook; 3d, H. A. Clark. McIntosh: 1st, Wilfrid Wheeler; 2d, L. F. Priest. Porter: 1st, Wilfrid Wheeler; 2d, W. Heustis & Son; 3d, G. V. Fletcher. Any other variety: 1st, H. A. Clark, Williams; 2d, L. F. Priest, Wealthy; 3d, L. F. Priest, Nyack; 4th, E. E. Cole, Alexander. Pears.—Bartlett: 1st, H. A. Clark; 2d, F. W. Dahl; 3d, G. V. Fletcher. Any ripe variety, Bartlett excepted: 1st, F. W. Dahl, Clapp's Favorite; 2d, G. V. Fletcher, ditto; 3d, F. W. Dahl, Giffard; 4th, F. W. Dahl, Dearborn's Seedling. Plums.—1st, W. P. Hutchinson; 2d, G. V. Fletcher. Single plate of any variety: 1st, O. B. Kenrick, Bradshaw; 2d, G. V. Fletcher, ditto; 3d, E. B. Parker, ditto. Japanese Plums.—Burbank: 1st, Wilfrid Wheeler; 2d, D. L. Fiske. Collection.—1st, E. B. Parker; 2d, W. P. Hutchinson; 3d, D. L. Fiske. Single plate of any variety: 1st, W. G. Kendall, Burbank; 2d, O. B. Kenrick, ditto; 3d, E. B. Parker, Shiro. Native Grapes.—White: 1st, W. G. Kendall, Green Mountain; 2d, J. S. Chase, ditto.

Vegetables.

Beans.—Lima. 1st, W. J. Clemson; 2d, Ed. Parker; 3d, G. B. Gill. Beets.—1st, E. L. Lewis; 2d, E. L. Lewis; 3d, W. Heustis & Son. Cabbages.—1st, E. L. Lewis. Celery.—1st, Edwin L. Lewis; 2d, W. J. Clemson; 3d, Alice A. Warburton. Melons.—1st, Edwin L. Lewis; 2d, Edwin L. Lewis. Watermelons.—1st, Edwin L. Lewis; 2d, Ed. Parker; 3d, Joseph Thorpe. Onions.—1st, W. J. Clemson, Prize Taker; 2d, Edwin L. Lewis, Giant of Gibraltar; 3d, Edwin L. Lewis, Prize Taker. Parsnips.—1st, W. J. Clemson, Hollow Crown; 2d, Edwin L. Lewis, Dobbin Selected; 3d, W. J. Clemson, Long Smooth. Squashes.—1st, Edwin L. Lewis, Marrow; 2d, Edwin L. Lewis, Hubbard; 3d, Ed. Parker, Turban. Tomatoes.—1st, Ed. Parker, Stow; 2d, Frederic Cole, ditto; 3d, Edwin L. Lewis, ditto. Collection.—1st, Edwin L. Lewis; 2d, Ed. Parker.

Certificates.

First Class Certificates of Merit:—B. Hammond Tracey, Seedling Gladiolus Kathryn; also for Gladiolus Princess Sanderson and Gladiolus Jean Dieu la Foy; Frederick J. Rea, *Helenium autumnale superbum rubrum*; J. L. Smith, superior cultivation of *Nephrolepis Barrowsi*; A. H. Win-

gett, Scerling Dahlia "Charles Lanier;" Sidney Hoffman, artistic arrangement of Dahlias; Mrs. J. C. Whitin, Diamond Jubilee Grape.

Honorable Mention:—B. Hammond Tracey, Seedling Gladiolus Harvard; Henry A. Dreer, *Nephrolepis Todeaoides*; also for *Nephrolepis Amerpohli*; R. & J. Farquhar & Co., display of *Lilium auratum*, *L. tigrinum*, *L. speciosum*, and *L. Philippine*; Laban Pratt, display of Single Dahlias; W. W. Rawson, display of Dahlias.

COMING FLOWER SHOWS.

Nassau County Horticultural Society.

The Nassau County Horticultural Society will hold a special dahlia show in connection with its October meeting at Glen Cove, N. Y.

State Floral Society of Arkansas.

The State Floral Society of Arkansas is planning for an elaborate exhibition to be held at Little Rock on November 14, 15 and 16. Among the prize cups offered is a handsome one by J. W. Vestal & Son, the florists.

Lenox Horticultural Society.

The Lenox (Mass.) Horticultural Society will hold an exhibition of chrysanthemums, plants, orchids, roses, carnations, fruit and vegetables on October 23 and 24. For detailed information address the secretary, George H. Instone, Lenox, Mass.

Wappingers Dahlia Society.

The Wappingers Dahlia Society will hold its seventh annual exhibition at Park Hall, Wappingers Falls, N. Y., on Friday and Saturday, September 20 and 21. The schedule is quite unique in many of its 125 classes. Lenox Banks, New Hamburg, N. Y., is the secretary.

New Jersey Floricultural Society.

The annual Dahlia Exhibition of the New Jersey Floricultural Society will be held in Elk's Hall, Orange, N. J., on Friday evening, October 4. There will be no cash prizes but two classes of awards will be given, viz.: First-class Certificate and Certificate of Merit. The secretary's address is Henry Halbig, 35 Valley street, Orange, N. J.

Newport Horticultural Society.

On September 17, 18 and 19 the Newport, (R. I.) Horticultural Society will hold its Autumn exhibition at Masonic Hall, Newport. There are 77 classes in the schedule copies of which may be had by addressing the secretary, David McIntosh. This show is always notable for its fine groups of decorative foliage and flowering plants and made-up baskets and other floral arrangements.

Tarrytown Horticultural Society.

The ninth annual exhibition of the Tarrytown Horticultural Society will be held at Music Hall, Tarrytown, N. Y., on Wednesday, Thursday and Friday, November 6, 7 and 8. Schedules of this important show may be procured from E. W. Neubrand, secretary. There are no less than 27 special prizes—silver cups and cash—besides the 65 regular premiums, and lively competition is assured. Entries

must reach the secretary before Nov. 2.

Massachusetts Horticultural Society.

The annual chrysanthemum show of the Massachusetts Horticultural Society will take place at Horticultural Hall, Boston, on Friday, Saturday and Sunday, November 8, 9 and 10. The prizes offered amount to \$1000, in addition to a number of gilt, silver and bronze medals. The plant entries at Boston are acknowledged to be the finest in the country every year and those who like to see these remarkable examples of cultural skill will find this exhibition worthy of a visit. Prize schedules may be had by addressing secretary Wm. P. Rich, Horticultural Hall, Boston.

Maryland State Horticultural Society.

The annual meeting and exhibition of the Maryland State Horticultural Society will be held in the Fifth Regiment Armory, Baltimore, Md., on December 3 and 4. This hall containing 62,000 square feet of floor space will afford ample opportunity for making the greatest horticultural show ever held in the State of Maryland, and that is what the managers aim to accomplish. There are some special premiums, such as the Baltimore News prize for group of decorative plants, the Mrs. Garrett prize for groups of ornamental evergreens, silver medal for best new fruit or flower not disseminated, etc., and a long array of regular prizes. Intending exhibitors should send to the secretary, Thomas B. Symons, College Park, Md., for a copy of the prize list.

APPRECIATED IN INDIANA.

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Boston, Mass.

Dear Sirs:—Enclosed you will please find check for amount due you to date. Please accept our thanks for waiting on us and for the large amount of inquiries and business your magazine has sent to us. Surely the little ad. we placed with you has done us a lot of good and as we can not keep up with the orders at present we will kindly ask you to discontinue the ad. until we notify you again later on.

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KOCHIA SCOPARIA VAR. TRICOPHYLLA.

A transatlantic contemporary ("Horticulture") enquires for light on the naming of *Kochia scoparia*, which name, it discovers, has been suppressed by European firms in place of *tricophylla*. The reason of the change, we believe, is that *K. scoparia* was found, upon investigation, to be a tall, lax growing plant with much darker foliage than the new, columnar, bright green subject which we first heard of as *K. scoparia*. The name *tricophylla* was therefore appended to mark a varietal distinction.—Journal of Horticulture.

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FOR HORTICULTURAL EDUCATION IN THE PUBLIC SCHOOLS.

The following is a copy of the preamble and bill making horticultural education in the public schools mandatory upon State Boards of Education as proposed by the S. A. F. committee and reported by the chairman, Mr. E. V. Hallock, at the Philadelphia Convention:—

The movement to establish school gardens has already been put in force successfully and according to original ideas. In every case the school garden has proved more beneficial even than was expected, opening a new and attractive and useful field of study to the pupils, giving them healthful exercise, and providing them with manual training in connection with mental work, which is said to increase the efficiency of mental effort as much as thirty per cent.

Its advantages are almost too apparent to repeat—uplifting in morals, and changing as if by magic the exuberance of youth from mischievousness into interesting and useful channels. It has proved to have almost eradicated the spirit of lawlessness and destructiveness, or changed it into a sense of possession and a desire to respect the rights of others as the possessor would have his own rights respected.

The material benefit derived from gardening can be made to change the entire mode of living of a family, making possible the saving of large sums of money otherwise expended for fresh meat and canned goods, and being at once a stop-gap of outgo, and providing a healthful diet, which is little appreciated when never tried. Millions of dollars in each state could be saved to the laboring man—and the man of means also—by a surprisingly small effort, if properly directed.

In this era of trusts and the raising of prices, the garden is the poor man's answer. Thousands of acres of land that lie fallow in every state of the Union, producing nothing, worth nothing, could be changed in one short year to produce millions of dollars, all going toward the betterment of the poor, or comparatively poor, man. We have the land, and the sunshine too, and the intelligence of man—all these are free and can be turned into incalculable value with slight direction of the controlling power of the state.

If the youth of the country can be made to see the broad benefits derived from horticulture, and the interest, desire and love for this work be implanted in their hearts, usefulness will take the place of vandalism, and interesting exercise the place of pernicious activity.

As every native-born child and all foreign-born children up to a certain age pass through the portals of our schoolhouses, it stands to reason that here is the place to teach them what will be of so much use and importance in their life-long welfare.

We believe that the teaching of horticulture, and the rousing of interest in the pupils' minds as to its possibilities, has a strong bearing upon the welfare and contentment of the people, and will tend to allay the present spirit of unrest which seems to pervade all ranks.

Therefore we submit the following as a bill to be introduced into the Legislature of the State of —

Resolved, That the teaching of horticulture by simple practical methods in the public schools of the State of — become a law of the State; and that the Society of American Florists be empowered to put this law into operation, with as little disturbance as possible of the present course of study, and with the aid of the most experienced people in this line who will be in close connection with the heads of Agricultural Schools and Colleges and Experiment Stations throughout the country.

Resolved, also: That this law be put in force the second year after the passing of this bill.

Signed:

E. V. HALLOCK, Chairman.
BENJ. HAMMOND.
ALEX. WALLACE.
F. E. PALMER.
J. F. COWELL.

OBITUARY.

Peter La Pointer a florist, sixty years old, of Eureka, Cal., died suddenly on August 27 at Los Angeles.

Dominick McDavitt, a landscape gardener of Danvers, Mass., was killed while alighting from a train, after bidding goodbye to some departing friends at the railroad station in Salem, on Sunday evening last. He was about 70 years of age, and a member of Post 90, G. A. R.

Charles Callice, florist, of Far Rockaway, N. Y., died at St. Joseph's Hospital on September 3 after suffering a short time from diabetes gangrene, at the age of seventy years. The funeral was held on Thursday and the interment took place in the Lawrence Cemetery.

Wm. O'Hara, a prominent and highly respected florist and gardener of Huntington, N. Y., died on September 6, after a three days' illness with pleuro-pneumonia, aged 59 years. Mr. O'Hara was born in Ballyvary, Ireland. In early life he worked at gardening at Lancastershire, England. In 1870 he came to this country and settled in Boston. Fall River was his home for a time, but he soon went to New York City. For four years he was foreman for the late Henry G. Scudder, at East Neck. He was on the estate of the late Dr. H. A. Belt, at Livingston Manor, N. Y. About 1878 he went to Huntington and in 1888 established the florist business which he conducted at time of his death. He is survived by a wife, who was Miss Julia Whalen, to whom he was married in 1878.

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Seed Trade

We acknowledge receipt of the report of proceedings of the 25th annual convention of the American Seed Trade Association, held at New York June 25-27, 1907. An excellent likeness of the retiring president, Henry W. Wood, forms the frontispiece. All the addresses, papers and reports, with discussions thereon, are given in full, and the publication is altogether an interesting narrative of a most interesting event.

One or two pea and bean growers have been sending out preliminary estimates of deliveries on this season's pea crops, and while they are much below 100 per cent., they are in most instances higher than will be eventually delivered. At least, this is the opinion expressed by one of the leading growers. This grower furnishes the following percentages as his probable deliveries: Pride of the Market, 1 to 20 per cent.; Improved Stratagem, 15 to 20 per cent.; Abundance, Horsford's Market Garden and Advancer, 50 to 60 per cent.; Alaska, 50 to 70 per cent.; Duke of Albany, Telephone and Admiral, 60 to 70 per cent.; Extra Early, 70 to 80 per cent.; Gem and Excelsior, 60 to 70 per cent.; American Wonder, 60 to 70 per cent.; Gradus, 40 to 60 per cent.; Thomas Laxton, 50 to 70 per cent.; Yorkshire Hero, Everbearing and Champion of England, 70 to 80 per cent.; On such varieties as Sultana Excelsior, Alderman, Senator no estimates have been named, nor on Canada Field.

No estimates on beans have yet appeared, and those who have been asked decline to make any, claiming it is yet too early to give any reliable figures.

Cool weather, particularly the nights, has been the rule for the past ten days, and light frosts have been reported from various places, though so far as ascertained not heavy enough to materially damage corn, which will probably be a poor crop from, and including northern Ohio east. Over most of this area a severe drought has prevailed which has only been broken within the past few days, too late to be of any great benefit excepting to fall-sown crops and grass. Within the next week or two something more definite on corn, potatoes and other crops will be given.

✶

The vacation season is about over, and soon again seedsmen will be at work preparing for another season's business, and it is a satisfaction to note that the horizon is clear, and every indication pointing to another prosperous year. While staple crops are more or less below average, the shortage in most cases will not approach a famine, and prices, while above the normal, should not be unusually high. Altogether, the situation appears to be nearly ideal for the seedsmen, and with general prosperity unabated, the future certainly looks rosy. It is well not to be over-exalted, as clouds may appear on the sky, but just now there are none in sight, and we may as well enjoy the sunshine and not borrow trouble.

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The old favorite Easter Lily, too well known to need description, except to say, that in our Special Brand Strain we offer something decidedly Superior, being Larger, Healthier, and Better than those usually sold. Each year sees our importations increase in great proportions. All Lily Bulbs are Fully Matured and up to size. Our aim is to give the largest possible value for the money.

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5-7 Cir.....	\$4.00	\$4.75	\$45.00
6-7 ".....	3.50	6.50	60.00
7- ".....	2.00	9.25	90.00
9-11 ".....	1.00	20.00	190.00
11-13 ".....	.50	45.00	

REGULAR BRAND.

	Bulbs per case.	Per 100	Per 1000
5-7 Cir.....	\$4.00	\$4.50	\$42.50
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9-11 ".....	1.00	19.00	180.00
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Our Fall Price List of Bulbs Now Ready

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F. G. Johnson, of Columbus, Ohio, who for over twenty years has been with the Livingstone Seed Company of that city, has associated himself with S. M. Isbell & Co., of Jackson, Michigan. Mr. Johnson was the treasurer of the former firm, and will be a most valuable addition to the Isbell forces.

The Stumpp & Walter Co., at 50 Barclay street, New York, will have a most attractive and commodious store, when the improvements and alterations now being made are completed. They will then occupy the entire building of five stories and basement, which space their growing business most certainly needs.

It is reported that A. M. Rennie of Providence, R. I., succeeds to the position of manager of Vaughan's Seed Store, New York.

AMERICAN SEED TRADE ASSOCIATION.

President Geo. S. Green has made the following appointments:

Delegates to National Board of Trade—W. Atlee Burpee, Albert McCullough.

Delegates to National Council of Horticulture—J. C. Vaughan, C. E. Kendel.

Delegate to National Flower Commission—W. F. Jones.

Delegate to National Irrigation Congress—Lester I. Morse.

Committee on Seed Legislation—Chas. A. Heath, chairman; Chas. N. Page, F. W. Polgiano, Albert McCullough, S. F. Willard.

Committee on Weights and Measures—C. S. Burge, chairman; John T. Buckbee, Wm. G. Scarlett.

Committee on Customs and Tariff—W. H. Grenell, chairman; Chas. H. Breck, Alexander Forbes.

Committee on Postal Laws, etc.—Charles N. Page, chairman; J. T. Buckbee, J. C. Vaughan, E. L. Dungan, L. L. May.

Committee on Experiment Stations—W. D. Ross, chairman; S. E. Briggs,

D. I. Bushnell, Burnet Landreth, J. W. May.

Committee on Governmental Seed Distribution—Alex. Forbes, chairman; C. P. Wood, W. Atlee Burpee, W. H. Maule, F. W. Polgiano.

Committee on Transportation—Geo. B. McVay, chairman; S. G. Courteen, J. G. Peppard, J. J. Buffington, C. C. Cropp.

Committee on Seed Adulteration—Albert McCullough, chairman; A. D. Heffron, C. S. Burge, Henry Nungesser, Henry W. Wood.

Committee on Revision of Code—Walter P. Stokes, chairman; Horace E. Conklin, Marshall H. Duryea.

CATALOGUES RECEIVED.

Eastern Nurseries, Jamaica Plain, Mass.—Advance evergreen list.

Nathan Smith & Son, Adrian, Mich.—Wholesale Fall List of Phloxes, etc.

Schlegel & Fottler Co., Boston, Mass.—Fall Catalogue of Bulbs and Plants. This is a neat, concise publication, typographically creditable and half-tones well brought out. A view in the sunken garden at Fairmount Park forms the cover illustration.

A. T. Boddington, New York.—Autumn Catalogue of Bulbs and Seeds. Has a Bunyard cover design of artistic merit and appropriateness. The contents give Boddington's Quality Bulbs an appropriate presentation. Appended is a very complete list of hardy perennial seeds.

Dingee & Conard Co., West Grove, Pa. New Guide to Rose Culture, autumn 1907. A nice entertaining list of promiscuous plants, with colored illustrations of guava and carnations on front and back cover. Contains 44 pages, of which five are devoted to a list of roses.

R. & J. Farquhar & Co., Boston.—Autumn Catalogue. This is the finest of the fall catalogues which have come to our notice. The cover is superb,

BAMBOO CANES TOUGH AND STRONG

6 ft. long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

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showing a group of daffodils on the front and a cluster of tulips on the back, all done in colors and beautifully finished. Many of the half-tone illustrations are new and all are of the highest workmanship. Tulips, narcissi, lilies and irises are given especial attention in the bulb department, and the list of new and choice hardy border plants is very complete

Otto Katzenstein & Co., Atlanta, Ga.
—Trade price list of tree and shrub seeds, roots and bulbs.

Bay State Nurseries, North Abington, Mass.—1907 Price list of trees, shrubs, roses, vines and herbaceous perennials "For gardeners and owners of estates only." This is an extensive list comprising all that is best in hardy material for home decoration.

PUBLICATIONS RECEIVED.

Dictionary of the principal terms employed in botany and horticulture, by A. M. C. Jongkindt Coninck, Director of the School of Horticulture at Bussum, Holland. This is a revised edition of the original publication, issued in 1894. The terms are given in tabulated form in Latin, Greek, French, English, German and Dutch. It is published at the price of four francs.

Year Book of Audobon Park, New Orleans. This is an occasional publication, ten reports having been issued since 1890 by the Audobon Park Association which has the management of this public recreation ground. The excellent full-page half tones with which the book is embellished show forth the semi-tropical beauties of the place, an avenue of live oaks heavily festooned with southern moss being particularly impressive.

Twenty fourth annual report of the Board of Park Commissioners of the City of Minneapolis. This report comes with compliments of Superintendent Theodore Wirth and is a gem in its typographical work and illustration. It is exceedingly interesting and full of instructive suggestion for those intrusted with the care of public reservations as might naturally be expected in anything from the pen of Mr. Wirth who is recognized as one of the foremost exponents of practical park work as applied to the public needs of today. The extensive work being done in the construction of a noble system of parks for Minneapolis is well displayed in a number of detail maps and diagrams.

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Giant Crimson Giant Pink
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AN IMPORTANT NEW BOOK ON PLANT BREEDING.

Much as the practical man is prone to lack in respect for the "theoretical" and the "scientific," it is rapidly coming to be understood that the highest success in agriculture and horticulture can be achieved in these days only by means of a very thorough knowledge of the nature of plants and animals. After all, science is but the systemization of the kind of knowledge which the "practical" man accumulates from experience and from tradition. Botany has learned much from the "unscientific" plantsman; only it has gone much further in most directions than he has, and has combined sorts of information which to the grower are either unknown or unrelated. The trouble with botanical science—from the grower's point of view—has been that the theoretical man has cared more for theories than for results. Nowadays this condition is rapidly changing. The two kinds of workers are joining hands, and the good effects begin to be seen. The practical horticulturist can no longer afford to stand apart. The rule of thumb is out of date. It's too short to measure the distances covered by present-day progress.

Possibly the most important advances in agricultural and horticultural methods, which mark our era, are those in improvement of plant breeds. The purpose of this article is to call the attention of plantsmen to a book just published by Hugo de Vries, with the title "Plant Breeding." De Vries, as many readers know, is not primarily a grower or improver of races of plants. But as Professor of Botany in the University of Amsterdam he has been a devoted student of heredity for many years. He rediscovered Mendel's work and showed its importance. He has written the most talked-of book on Evolution which has been published since Darwin. His theory of the change of characters in plants is called the Mutation Theory, according to which new characters are not gradually built up by slow change and selection, but appear suddenly by leaps, or "mutations;" as the practical grower would say, they appear as sports. New races of plants come suddenly, according to De Vries. Moreover, many, if not most species, according to him, consist of a mixture of races, or little species. In working out his ideas De Vries, like Darwin, has constantly referred to the history of horticultural plants, and moreover has for many years actually experimented on heredity in the botanic garden at Amsterdam. Horticulture and agriculture have served him in the cause of science. His latest book, named above, is written in the service of these arts. It makes clear a most important principle in plant breeding, by the best of all methods, namely, that of concrete example.

De Vries describes the work of several eminent breeders, especially Nilsson and Burbank, the achievements of the former being probably more important to the race at large, though less spectacular, than those of the Californian. The work of the Swedish breeder also has this cardinal virtue, that it has been conducted with system, every step being known and

recorded, and the principles discovered therefore stand forth as clear as day, so that the work may be repeated and applied at large by anyone. The material that Nilsson has worked on chiefly—the cereal grains—has been also most difficult of treatment, and the problem, vastly important it is to mankind, could only have been solved in its entirety by the scientific methods in use at Svalof.

Nilsson has been Director of this Swedish Agricultural Experiment Station since 1890. In 1886 the Swedish grains were found to be deteriorating and a society was formed in the village of Svalof in southern Sweden, for the introduction, testing, and improvement of the best foreign sorts. The first work of the society was conducted along the lines of the German grain-breeders. In brief the German method was—and is—to select from a field of growing wheat, oats, or rye, numbers of the best stands showing the largest ears with the most kernels, or manifesting in a high degree whatever quality is sought for. This handful of plants, the elite, becomes the basis of the seed crop of the next year. Some improvement is expected each season; and in fact in this sort of selection considerable success has been attained in the evolution of improved grains. The seedsmen have always recommended the purchase of seed from their own establishments on the ground that only by the continued selection of elite strains could purity and standards of productiveness be maintained.

This method was practiced at Svalof when Dr. Hjalmar Nilsson, the present Director, took charge, in the year 1900. His first discovery was the inadequacy and the uncertainty of the method. Selection resulted only rarely in any marked success. It was found in certain cases that qualities of a particularly desired kind—for example stiffness of stalk in oats—could not be induced by the most persistent efforts. Moreover, Nilsson found that the plots of grain sown from elite strains were not uniform, or pure. The impurity of the strains was, it is now thought, the source of deterioration in crops and of defeat in the experiments.

Nilsson's first important observation, was that among the thousands of cultures, some few were found that appeared to consist of only one type. As elaborate records of all the original samples of seed has been kept, Nilsson was enabled to ascertain the cause of the purity in these exceptional cases. According to the accepted method each sample had consisted of a certain number of ears which were as similar to one another as could be expected, and which were therefore simply assumed to belong to the same type. But of course the number of ears had been different in different groups, some being numerous and some rare. Among the latter some had been met with in only a single head. As a record has always been kept of the exact number of heads used, it could be made out to how many original heads pure cultures were attributable. It proved that the exceptional lots were descendants of single heads in each case.

This almost accidental discovery, in the summer of 1892, suggested the way to a new method of experiment, when

the capabilities of the older one seemed almost exhausted. In the harvest of that year, search was made for new starting points. This time single heads—in all about 2000 different heads and panicles, representing as many divergent types as possible, were selected.

The results of this trial exceeded all expectation. For example, among 422 cultures of oats, 397 were pure, only 25 multiple. The exceptions were thought to represent hybridizations; and of course this possibility in all the cases made one further selection, of separate heads in each case, necessary. But the high degree of uniformity in the cultures of 1893 advanced the principle of the selection of single individuals as a reliable source of purity to the rank of an experimentally established fact.

From this fact it could be further deduced that repeated selection, such as that required in the method of elite races would be unnecessary—hybridizing effects aside. The uniformity was in fact such as to make a further selection impossible. The differences which formerly existed within the cultures were now found to exist only between the different groups, which now could serve as the material of selection.

From the industrial side the principle of the sufficiency of one original selection has a high value, for when once the desired kind of purified grain has been adopted, no further selection of seed is required to keep the race up to standard of productiveness, as in the older method.

But purity is not all that is sought. Excellence is the object of the culturist's search. The question arose whether the separate cultures would possess sufficient variety of qualities and excellences to afford the basis of further advances. The results of the sowings of 1893 showed that their mutual differences were much greater than could be surmised from an inspection of the original confused stock. The separate cultures compiled with the most diverse requirements, some being highly resistant to frost, others to disease, some being suited to light, other to hard soils, some being early, other late in ripening, some excelling

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in the rigidity of their stalks, the length of ear, number of grains, etc.

The process amounted, then, to the sifting out of the elementary races composing the supposedly pure, but really heterogeneous, races of preceding breeders. This has been accomplished on the principle of individual selection. The number and variety of these elementary races is unexpectedly rich, and adequate to supply almost any demand which can be pointed out. Of course the testing of their various productiveness and their adaptability to diverse condition of the Swedish territory has been and continues to be the further work of the station.

But the range of elementary races is not limited by the numbers already demonstrated in the segregating process. From time to time in the pure strains single aberrant individuals appear, sports as they would be called by most growers, "mutants" as de Vries calls them. These are carefully saved and made the starting points of new cultures. From such an origin, for example, have come the best among all the novelties of winter wheat. The carefully kept records of these instances in which the exact origin of new races is known, are of course of very great interest to the student of evolution; and, it may be added, they seem strongly to support de Vries's Mutation Theory.

The prolificness of the new procedure is seen when we learn that as soon as the preliminary work in method and testing had been done, in 1901, 18 excellent new varieties were offered to the trade. Among them were 5 kinds of wheat, 6 of barley, 3 of oats, and 4 of vetches—for the experiments have not been entirely confined to cereals. Each year some new varieties are added to the stock. This is in contrast to the old method in which the successes were in comparison few and far between.

De Vries reviews also the methods of Le Conte, the pioneer in improving by selection, Shirreff, Hallett, Hays of Minnesota, von Lochow, and as already said, the German seedsmen. Burbank's work is described from the author's personal observation, and its principles analyzed. A long chapter on Association of Characters contains much that is interesting to plantmen. The whole, moderate-sized book, is written in a clear, non-technical, and interesting style. I shall feel that I have rendered some service to the cause of applied science if my review of the book leads readers of HORTICULTURE to study its pages.

R. G. Leavitt

The Ames Botanical Laboratory,
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Arroyo Grande, Calif., July 30, 1907.
Horticulture Publishing Co.,
11 Hamilton Place,
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THE HORTICULTURAL SOCIETY OF NEW YORK.

Preliminary program of the International Conference on Plant Hardiness and Acclimatization to be held October 1, 2 and 3, 1907, in the rooms of the American Institute and in the Museum Building, New York Botanical Garden.

Tuesday, October 1—10 o'clock A. M. Organization of the Conference. Address by the President of the Horticultural Society of New York. Reading of papers: 10.30 A. M.—12 M., and 2-5 P. M.

Wednesday, October 2—(Excursion. Details will be announced at the meeting of October 1.)

Thursday, October 3—10 o'clock A. M.—(New York Botanical Garden, Bronx Park.) Meetings for the reading of papers in Museum Building: 10 A. M.—12 M., and 2-5 P. M.

List of Papers.

The following partial list of titles which have been promised will serve to indicate the general scope of the subjects that the Conference will cover, and the Committee of Arrangements will be glad to receive promises of other titles or suggestions from people who are interested. Communications should be addressed to the Secretary.

It is planned to publish in one volume a complete report of the proceedings, which should be an important contribution to the literature of horticultural research.

The Determining Factors in the Seasonable Activity of Plants. D. T. MacDougal, Tuscon, Ariz.

Factors that Control Acclimatization. Henry C. Cowles, University of Chicago, Ill.

Evaporation as a Climatic Factor Influencing Vegetation. B. L. Livingston, Tuscon, Ariz.

Air Drainage as Affecting Hardiness of Plants. Ernst A. Bessey, Subtropical Laboratory, Miami, Fla.

The Real Factors in Acclimatization. Frederic E. Clements, University of Nebraska.

Plant Improvements Needed in Specific Cases. W. M. Hays, Assistant Secretary of Agriculture.

Comparative Hardiness of Plants of the Same Variety from Northern and Southern Points. J. C. Whitten, Missouri.

Observations on Eucalyptus Hybrids: The Japanese Loquat in Algeria; Truth to Seed of Eastern and African Varieties of Vitis vinifera. M. Robert, Algeria.

Temperate Zone Plants in the Tropics. D. W. May, Porto Rico.

Acclimatization of Economic and Other Plants in the West Indies. D. Morris, Imperial Dept. of Agriculture for the West Indies.

Cooperative Testing to Ascertain Hardiness in Fruits. H. L. Hutt, Guelph, Canada.

Resistance to Cold, Heat, Wet, Drought, Soil, etc., in Grapes. T. V. Munson, Texas.

Developing Hardy Fruits for the North Mississippi Valley. Samuel B. Green, Ohio.

Hardiness of the Peach. U. P. Hedrick, Geneva, N. Y.

Hardiness of Apples. O. M. Morris, Oklahoma.

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Fruit and Trees in the Northwest. W. S. Thornber, Washington.

Hardiness and Acclimatization of Alfalfa. B. C. Buffum, Wyoming.

Some Work with Timothy and Awnless Brome Grasses. S. Fraser, Geneva, N. Y.

Hardiness of Ornamental Plants in the Middle Northwest. Anthony U. Morrell, Minnesota.

Studies on the Acclimatization of Plants in the Prairie Regions. L. H. Pammel, Iowa.

Observations in the Region at the Head of Lake Michigan. Jens Jensen, Chicago, Ill.

Experiments in Plant Acclimatization in Alaska. Walker H. Evans, U. S. Dept. of Agriculture.

Fifteen Years Experience in Southern California. D. F. Franceschi, Santa Barbara, Cal.

Some Experiences with Field Crops in Virginia. Andrew J. Soule, Blacksburg, Va.

Observations on Hardiness of Plants Cultivated at the New York Botanical Garden. Geo. V. Nash, New York Botanical Garden.

Some Anomalous Observations in St. Louis. W. Trelease, Missouri Botanical Garden, St. Louis, Mo.

Problems of Hawaii. J. E. Higgins, Hawaii.

Promises of cooperation have also been received from W. Robinson, J. Backhouse, and the Royal Agricultural Society, of England; Ph. de Vilmorin, of France; W. Saunders, Canada; and many experiment station workers.

LEONARD BARRON, Secretary,

CONGRESS OF HORTICULTURE.

In addition to the meetings of the American Pomological Society, American Nut Growers' Association, the Society for Horticultural Science, etc., a Congress of Horticulture will also convene at the Jamestown Exposition during the week of September 23-27. The following program of addresses has been issued:

First Session.

Mr. J. H. Hale, Chairman, South Glastonbury, Conn.

(a) Cultural Problems:

Soils, Professor F. H. King, Madison, Wis.

Plant Diseases. Dr. A. F. Woods, Washington, D. C.

Insects Enemies, A. L. Quaintance, Washington, D. C.

(b) Breeding and Propagation:

Horticultural Variation, Dr. H. J. Webber, Ithaca, N. Y.

Principles of Seed Growing, J. Otto Thilow, Philadelphia, Pa.

Vegetables. Dr. Walter Van Fleet, New York, N. Y.

Ornamental Woody Plants, Hon. M. W. Hale, Knoxville, Tenn.

Florists' Flowers, W. N. Rudd, Mt. Greenwood, Ill.

Second Session.

Professor B. Green, Chairman, St. Anthony Park, Minn.

(a) Commercial Growing:

Nuts, Professor W. A. Taylor, Washington, D. C.

Garden Vegetables, W. W. Rawson, Boston, Mass.

Ornamental Plants, Wm. H. Taplin, Brooklyn, N. Y.

Cut Flowers, F. R. Pierson, Tarrytown, N. Y.

Forest Trees, Professor F. W. Rane, Boston, Mass.

(b) Local Horticultural Conditions:

Canada, Professor W. T. Macoun, Ottawa, Canada.

East, John K. M. L. Farquhar, Boston, Mass.

Central West, L. A. Goodman, Kansas City, Mo.

Pacific Coast, Professor E. J. Wickson, Berkeley, Cal.

South, Professor F. H. Burnette, Baton Rouge, La.

Third Session.

Professor S. A. Beach, Chairman, Ames, Ia.

Civic Horticulture, Warren H. Manning, Boston, Mass.

Our National Forests, W. L. Hall, Washington, D. C.

Landscape Gardening, John C. Olmsted, Brookline, Mass.

Schools and Experiment Stations, Dr. A. C. True, Washington, D. C.

Horticulture Press, Leonard Barron, New York, N. Y.

Government Aid, Dr. B. T. Galloway, Washington, D. C.

Federation and Co-operation, J. C. Vaughan, Chicago, Ill.

FORMOSA LONGIFLORUMS

A small shipment of these Lilies has arrived in fine condition. They were thoroughly ripened and dry the first day of June. We have no doubt they will replace the Bermuda lilies in future. We are prepared to deliver large quantities next season.

Trial cases at the following prices:—

Size, 6 to 8 ins.,	400 bulbs in case,	\$12.00 a case.
" 9 to 10 "	200 "	16.00 "
" 10 to 11 "	140 "	18.00 "

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31 Barclay St., New York.

THE PHILOSOPHY OF WHOLE-SALING.

(Charles E. Meehan of the S. S. Pennock-Meehan Co., before the Florists' Club of Philadelphia, Sept. 3, 1907).

The wholesale florist has, I believe, done more for the advancement of the flower business in general than any other branch of the trade. He has been the outlet for the enormous quantities of cut flowers which have been coming to our large cities and which could not be disposed of, in many instances, if it were not for him. It is his business to hunt for business wherever he can find it, whether it be in his home town or whether it is one thousand or more miles away. He has created markets for cut flowers and plants that would have been impossible but for his push and energy. His relations to both growers and retailers are of a peculiar character. I have often heard it said that he is between the devil and the deep sea, and I think this is, in a measure, true, as he has a hard time to please both parties. If flowers do not bring as much as the growers think they should, he hears about it, and if they bring good prices, the retailer calls him a robber and other names of like nature, or worse.

Now, let us take up this matter from the standpoint of what the grower has gained. In the first place, I think it must be generally admitted that under present conditions there is only one right way to sell flowers and that is through the wholesaler.

Years ago all the flowers that came to this city were sold direct by the grower to the store men. This was a satisfactory way at that time, but would never do under present conditions. Other and more satisfactory methods have gradually been adopted, and at this time I cannot recall in our city a single instance of a grower, who, having once tried the wholesaler, has gone back to his former ways. This, it would seem to me, is fairly good evidence that it must be satisfactory to those who try it. The reasons for this are many. In the first place, where a man may be the finest kind of a grower, he may be the poorest kind of a salesman. Also, as before stated, there are so many flowers grown around the larger centres that they could not possibly be consumed but have to go to other points. The wholesaler has created

Continued on page 300.

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TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Sept. 11	TWIN CITIES August 31	PHILA. Sept. 9	BOSTON Sept. 12
ROSES				
Am. Beauty, Special.....	25.00 to 30.00	20.00 to 30.00	20.00 to 25.00	15.00 to 25.00
" Fan. & Ex.....	15.00 to 20.00	12.50 to 17.00	15.00 to 20.00	6.00 to 10.00
" No. 1.....	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	4.00 to 6.00
" Lower grades.....	4.00 to 8.00	3.00 to 5.00	6.00 to 8.00	.50 to 3.00
Bride, 'Maid, Golden Gate, F. & S.....	5.00 to 6.00	4.00 to 6.00	6.00 to 8.00	3.00 to 4.00
" " Extra.....	2.00 to 3.00	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00
" " No. 1 & lw. gr.....	2.00 to 3.00	2.00 to 3.00	3.00 to 5.00	.50 to 1.00
Liberty, Richmond, Fan. & Sp.....	5.00 to 6.00	4.00 to 6.00	6.00 to 8.00	3.00 to 4.00
" Lower grades.....	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	.50 to 2.00
Chatenay, Morgan, Fan. & Sp.....	3.00 to 4.00	4.00 to 6.00	4.00 to 6.00	2.00 to 3.00
" Lower grades.....	2.00 to 3.00	3.00 to 4.00	3.00 to 5.00	.50 to 1.00
Kaiserin, Carat, Fan. & Sp.....	5.00 to 6.00	4.00 to 6.00	6.00 to 8.00	3.00 to 5.00
" Lower grades.....	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	1.00 to 2.00
Killarney, Wellesley, Fan. & Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	2.00 to 6.00
" Lower grades.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	.50 to 2.00
CARNATIONS				
Fancy and Novelties.....	2.00 to 3.00	1.50 to 2.00	2.00 to 3.00	..... to 2.00
Ordinary.....	.75 to 1.00	.75 to 1.00	..... to 1.50	1.00 to 2.00
MISCELLANEOUS				
Sweet Peas.....	.25 to .50	.25 to .50	..... to 1.00	.10 to .35
Cattleyas.....	50.00 to 75.00	35.00 to 60.00	..... to 75.00	35.00 to 60.00
Lilies.....	10.00 to 12.00	10.00 to 12.00	10.00 to 12.50	6.00 to 8.00
Lily of the Valley.....	3.00 to 4.00	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Asters.....	1.00 to 3.00	1.00 to 2.00	1.00 to 3.00	.50 to 1.50
Gladioli.....	2.00 to 4.00	2.00 to 6.00	3.00 to 6.00	1.00 to 3.00
Adiantum.....	1.00 to 1.50	.75 to 1.00	1.00 to 1.50	.50 to 1.00
Smilax.....	12.00 to 15.00	12.00 to 15.00	15.00 to 20.00	8.00 to 12.00
Asparagus Plumosus, strings.....	35.00 to 50.00	35.00 to 50.00	50.00 to 75.00 to 50.00
" " & Sprea. (100 bchs.)	35.00 to 50.00	35.00 to 50.00	50.00 to 75.00	20.00 to 50.00

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FLOWER MARKET REPORTS

BOSTON Very little change is noted in the demand in this market. An occasional sprint has been offset by dull periods of equal extent and so the average of business is just about normal. Roses are improving daily, and there are some elegant shipments of Carnot coming in. Carnations are beginning to appear in small lots of medium quality. Everything from outdoor sources shows the effect of the continued rain and fog, asters, gladioli and sweet peas coming in abundantly, but in water-soaked condition. The past week has been a bad period for this class of material.

Business, the past week, **BUFFALO** was increasing daily up to Saturday, when there came a halt and the market was overloaded with all kinds of stock which was carried over. Old Home Week, which was on the program, brought many out-of-town visitors, and the effect was somewhat noticeable in the flower line. Floral work was much in demand and the market was in good condition, cleaning up well, up to Saturday. Asters of poor quality came in plentifully, also roses of short grades, which blocked up considerably. Lily-of-the-valley and lilies sold well, as also fancy gladioli. Adiantum and all greens in good supply and demand fair.

Business shows some **DETROIT** signs of revival, and judging from the increased July and August trade this year as compared with last year, the coming season promises to be a hummer. Gladioli, with the exception of America, are a drag. Asters are coming in much better than in former years, but more than the local market can digest.

Business continues **NEW YORK** very quiet. Roses are abundant, particularly the short grades, and are selling low unless of exceptional quality. Carnations are very few, but there is a sufficiency of asters, lilies and lily-of-the-valley. Orchids are in very light supply and sharp demand.

The advent of the **PHILADELPHIA** dahlia is the only ripple on the business sea. Eureka, pink, Mrs. J. H. Jones, red and white cactus, Orange King, Arabella, yellow with bright markings, Standard Bearer and Wm. Agnew, crimson, Countess of Lonsdale and a few others are already conspicuous. Long-stemmed American Beauties are still scarce and the same is true of other staple rose crops. Carnations have improved considerably—prices fair for mid-season. Lily of the valley is cleaning up much better. Album and longiflorum lilies are in fair supply and meet ready demand. Asters are far too plentiful and great quantities of medium to poor stock find an inglorious wind-up on the dump.

DETROIT NEWS.

Robt. Klagge has made extensive alterations in his boiler room and added two new carnation houses.

B. Schroter has at last succeeded in getting mechanics to rebuild his store front. Building operations in this town are so extensive as to make labor very scarce.

The Michigan Cut Flower Exchange is undergoing a thorough renovation.

Gust. Taepke's new range of houses on Elmwood avenue is finished, thereby replacing five old houses with three new up-to-date houses.

A partition sale is advertised by the courts for the Larges estate, comprising 16 acres of garden land, 7 greenhouses, brick house and other buildings.

BUSINESS CHANGES.

E. Guernay has sold his flower store at 108 St. Catharine street, Montreal, to Maillette & Plouffe.

Alburger & Cascaden of Philadelphia have dissolved partnership. The business will be continued by E. Alburger.

INCORPORATED.

Thompson, florist, Chicago, \$2,500; grow and deal in flowers and plants; J. D. Thompson, B. C. Reber and P. W. Peterson.

NEWS NOTES.

The Lakeside Floral Company, Calumet, Mich., have moved into new and commodious quarters on North Fifth street.

The Lutey Floral Company opened for business in its new establishment on Fifth street, Calumet, Mich., on August 31.

Mrs. Thos. F. Johnston announces that she will continue the florist business of her deceased husband at 171 Weybosset street, Providence, R. I.

Peter Boyle, a gardener, aged 35 years, fatally shot his wife and then killed himself, at Pittsburg, Pa., on September 7.

Dr. George E. Stone of Amherst has been engaged throughout the summer in an investigation of the cause of the death of many street trees in Malden, Mass. He finds that gas poisoning is the principal cause of the trouble.

Fire caused a \$3,000 loss at the Perth Floral company's plant, Mason City, Ia., destroying flowers and choice plants, as well as buildings. The origin of the fire is not known, as no one was present when it started.

An order for a casket cover of fabulous price, to be composed entirely of orchids, caused the sending of emergency telegrams to all parts of the country from Thomas F. Galvin's store in Boston on September 10. The goods were secured regardless of expense.

Our correspondent J. B. D. reports that Orange, N. J., which has shown all the evidences of a metropolitan city in point of the summer exodus of wealthy residents to the seaside and mountain, is waking up and the florists' windows are once more in evidence of the looked for trade.

An annually recurring event is due to happen in New York Tuesday, September 17, when W. J. Elliott will waken the echoes at 291 Fulton street with his opening fall auction sale of big kentias and other indoor decorative plants. All the old-timers will be out on this occasion.

JOHN YOUNG**WHOLESALE FLORIST**Finest American Beauties and
Carnations**31 West 28 St. - NEW YORK****FORD BROTHERS**

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Roses			Carnations	1.00 to 2.00	1.00 to 2.00
Am. Beauty, fan and sp.	15.00 to 25.00	15.00 to 25.00	Sweet Peas (100 bunches).....	1.00 to 3.00	1.00 to 3.00
" extra	10.00 to 12.00	1.00 to 12.00	Cattleyas.....	50.00 to 75.00	50.00 to 75.00
" No. 1	6.00 to 10.00	6.00 to 10.00	Lilies	6.00 to 8.00	6.00 to 8.00
" Lower grades	1.00 to 3.00	1.00 to 3.00	Lily of the Valley.....	2.00 to 3.00	2.00 to 3.00
Bride, 'Maid, Golden Gate, fan & sp	3.00 to 5.00	3.00 to 5.00	Asters .....	.50 to 1.00	.50 to 1.00
" " lwr. grds. ....	.50 to 2.00	.50 to 2.00	Gladioli .....	.50 to 2.00	.50 to 2.00
Liberty, Richmond, fancy & special	3.00 to 5.00	3.00 to 5.00	Adiantum .....	.50 to .75	.50 to .75
" lower grades ..	.50 to 1.00	.50 to 1.00	Crocenium.....	1.00 to 1.50	1.00 to 1.50
Kaiserin, Carnot, fancy and spec.	3.00 to 6.00	3.00 to 6.00	Smilax	8.00 to 12.00	8.00 to 12.00
" lower grades ..	.50 to 2.00	.50 to 2.00	Asparagus Plumosus, strings....	20.00 to 30.00	20.00 to 30.00
Killarney, Wellesley, fan. and spec.	3.00 to 6.00	3.00 to 6.00	" & Spren. (100 bchs.)	10.00 to 25.00	10.00 to 25.00
" lower grades..	.50 to 2.00	.50 to 2.00			

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ROSES				
Am. Beauty, Fan, and Sp.	15.00 to 25.00	20.00 to 25.00	20.00 to 25.00 to 20.00
" Extra	10.00 to 12.00	15.00 to 20.00	15.00 to 20.00 to 12.50
" No. 1 and 1w. gr.	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	6.00 to 8.00
" Lower grades	3.00 to 6.00	2.00 to 3.00	3.00 to 8.00	4.00 to 5.00
Bride, 'Maid, Golden Gate, F. & S. ....	..... to 6.00	5.00 to 6.00	6.00 to 7.00	..... to 5.00
" " " Extra	3.00 to 5.00	4.00 to 5.00	4.00 to 6.00	..... to
" " " No. 1 and 1w. gr.	2.00 to 3.00	3.00 to 4.00	2.00 to 4.00	2.00 to 3.00
Liberty, Richmond, Fan, & Sp.	5.00 to 6.00	4.00 to 6.00	6.00 to 8.00	..... to 5.00
" Lower grades	3.00 to 4.00	3.00 to 4.00	3.00 to 6.00	2.00 to 3.00
Chatenay, Morgan, Fan, & Sp.	3.00 to 4.00	4.00 to 6.00	6.00 to 8.00	..... to
" Lower grades	2.00 to 3.00	3.00 to 4.00	3.00 to 6.00	..... to
Kaiserin, Carnot, Fan, & Sp.	5.00 to 6.00	4.00 to 6.00	6.00 to 7.00	6.00 to 8.00
" Lower grades	3.00 to 4.00	3.00 to 4.00	3.00 to 6.00	2.00 to 3.00
Killarney, Wellesley, Fan, & Sp. ....	..... to 6.00	4.00 to 6.00	6.00 to 7.00	..... to 5.00
" Lower grades .....	..... to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00
CARNATIONS				
Fancy and Novelties .....	..... to 2.00	..... to	1.50 to 2.00	1.00 to 2.00
Ordinary .....	..... to 1.00	1.00 to 1.50	1.00 to 1.25	..... to .50
MISCELLANEOUS				
Sweet Peas .....	..... to .25	..... to .25	.15 to .50	.25 to .50
Cattleyas to to 50.00	50.00 to 60.00 to
Lilies	8.00 to 10.00 to	4.00 to 15.00 to 15.00
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Asters50 to 2.00	.75 to 1.00	.25 to 2.00	.25 to 2.00
Gladioli	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00	1.00 to 4.00
Adiantum .....	..... to 1.00	1.00 to 1.50	.50 to 1.50	1.00 to 1.25
Smilax	10.00 to 12.00	15.00 to 20.00	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	35.00 to 50.00 to 50.00	40.00 to 50.00	25.00 to 50.00
" & Sprea. (100 bchs.) to 25.00	20.00 to 30.00	25.00 to 35.00	20.00 to 50.00

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Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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A. J. Dysart, 28 State St., Boston.
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Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Adiantum Hybridum, 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

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Thos. J. Grey & Co., 32 S. Market St., Boston.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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H. A. Dreer, 714 Chestnut St., Philadelphia.

Fall delivery. Our stock will please you.
J. W. Dunford, Clayton, Mo.

ASPARAGUS

Asparagus plumosus nanus and Sprengeri, 2 1/2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

Asparagus plumosus, 2 1/2-in., \$3.50 per 100; \$30 per 1,000; 3-in., 5c; 3 1/2-in., 10c; 4 in., 12c; 5-in., 20c; 6-in., 30c. Comorensis, 2 in., 2c; 2 1/2-in., 3c; 3 1/2-in., 6c. Sprengeri, 2 1/2-in., 3c; 3 1/2-in., 5c; 4 in., 10c. J. W. Dunford, Clayton, Mo.

Plumosa Seedlings, 90c. hundred, prepaid; 2 1/2-in. ready for shift, \$3 per hundred. Sprengeri well established, out of thumb pots, prepaid, \$1.60 per hundred. Will exchange seedlings for Primulas, Cinerarias, Hydrangeas, or Lorraine Begonias. Budd Park Greenhouses, 40 Hardesty, Kansas City, Mo.

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John Scheepers & Co., 4 and 6 Old Slip, New York.

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The best commercial varieties. J. W. Dunford, Clayton, Mo.

BAMBOO CANES

Stump & Walter Co., 50 Barclay St., New York.

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Bay Trees, Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

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R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.
Begonia Gloire De Lorraine.

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BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

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Boxwood, all sizes. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

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BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

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Joseph Breck & Sons, 47-54 N. Market St., Boston.
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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
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H. F. Mitchell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
Paper White Narcissus.
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John Scheepers & Co., 4 and 6 Old Slip, New York.
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H. E. Fliske Seed Co., Faneull Hall Sq., Boston.
Lilium Harrisii and Freesia Bulbs.
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James Vick's Sons, Rochester, N. Y.
Fall Bulbs.
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D. Rusconi, 32 W. Sixth St., Cincinnati, O.
Callas, Narcissus, Dutch Bulbs.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
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J. A. McDowell, Ap. 167, City of Mexico.
Mexican Summer Bulbs.
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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

BULBS AND TUBERS—Continued

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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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Chicago Carnation Co., Joliet, Ill.
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Sheppard Garden Carnation Co., 292 Fairmount St., Lowell, Mass.
Field Growing Carnations.
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Leo Niessen Co., 1209 Arch St., Phila.
Field Grown Carnations.
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Paul E. Richwagen, Needham, Mass.
Field Grown Carnations.

Chas. H. Totty, Madison, N. J.
Field Grown Carnations.
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Carnations, extra fine field grown plants, at \$5 per 100. Lawson, White Lawson, Red Lawson, Lady Bountiful, H. N. Hoffman, Elmira, N. Y.

Strong Field Plants, 300 Harlowarden, 150 Fair Maid, 300 Daybreak Lawson, 50 White Lawson, \$5 per hundred. R. D. Kimball, Waban, Mass.

Carnation Plants. Field grown. Perfectly healthy—Queen, Enchantress, Maid, Queen Louise, \$5 per hundred. A. S. Chase, Cumberland Center, Maine.

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Field grown Carnation plants: Estelle, \$5 per 100, \$45 per 1,000; Enchantress, \$5 per 100, \$45 per 1,000; Bountiful, \$6 per 100; Nelson Fisher, \$6 per 100; 500 at 1000 rate. Blanksma Bros., R. 11, Grand Rapids, Mich.

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The H. Weber & Sons Co., Oakland, Md.
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Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2 1/2 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

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John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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CUT FLOWER BOXES.

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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Folding cut flower boxes, the best made.
Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 1741 N. 8th St., Philadelphia.
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DAHLIAS

David Herbert & Son, Atco, N. J.
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DECORATIVE PLANTS

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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine.
\$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100;
6-in., \$6.00 per doz.; 7-in., 30 to 34 ins.
high, 75c. each, \$9.00 per doz.; 8-in. \$12.00
per doz. Terminalis, 3-in., \$2.00 per doz.;
6-in., 75c. each; 4-in., 25c. each, \$3.00 per
doz. The Geo. Wittbold Co., 1657 Buckingham
Place, Chicago.

EVERGREENS

Bay State Nurseries, N. Abington, Mass.
Small Evergreens.
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August Rolker & Sons, 31 Barclay St., New
York. Small evergreens.

FERNS

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H. H. Barrows & Son, Whitman, Mass.
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W. P. Craig, 1305 Filbert St., Philadelphia.
"Amerpohlii."
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Rockland Greenhouses, Rockland, Mass.
Whitmani Ferns.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-3
Bowery, New York.

FLORISTS' LETTERS.

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Boston, Mass.
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd.,
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William J. Smyth, Michigan Ave and 31st
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David Clarke's Sons, 2139-2141 Broadway,
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

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H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broad
way, Detroit, Mich.
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Finest green and bronze Galax in any
quantity at lowest figures. N. F. Mc-
Carthy, 84 Hawley St., Boston.

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Arthur Cowee, Meadowvale Farm, Berlin,
New York.
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Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury
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GLASS, High Grade, Double Thick Green-
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GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

GRADING AND PLANTING

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GREENHOUSE BUILDING MATERIAL.

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S. Jacobs & Sons, 1365-79 Flushing Ave.,
Brooklyn, N. Y.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-
Iron Greenhouses, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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In writing to Advertisers kindly mention Horticulture

GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HARDY FERNS AND SUPPLIES

A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl., Boston, Mass.
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Michigan Cut Flower Exchange,
33 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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HARDY HERBACEOUS PLANTS

Hardy Herbaceous Plants. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

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Lord & Burnham Co., 1133 Broadway, N. Y.
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INSECTICIDES.

Nicotiefle kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil Insecticide.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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David Clarke's Sons, 2139-2141 Broadway,
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new
Christmas flowering plant. Write for de-
scriptive circular and price list. Chas. H.
Totty, Madison, N. J.

NICO-FUME

Kentucky Tobacco Product Co., Louis-
ville, Ky.
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NIKOTEEEN APHIS PUNK.

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Choice Evergreens, Blue Spruce, etc.
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Kentia, Phoenix, etc., all sizes. Write for
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PAINT AND PUTTY

Michigan Cut Flower Exchange,
33 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice Pansy Plants, Transplanted,
ready September 1: 50c. per 100, \$4.00 per
1000. S. J. McMichael, 142 Larkins St.,
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Batavia Greenhouses, Batavia, Ill.

Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

PEONIES—Peony and phlox manuals, 23
cts. each. C. S. Harrison, York, Nebr.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and
Wrought Pipe, Valves, Elbows, Pipe Hooks,
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz.
The Geo. Wittbold Co., 1657 Buckingham
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PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POPPIES

Oriental poppies by 100 or 1000. C. S.
Harrison's Select Nursery, York, Nebras-
ka.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
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Low-budded roses, No. 1, \$95.00; No. 1-1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

500 Maids, 100 Ivory, 75 Gates, very strong, in 3½ and 4-in. Just right for benching, \$5 per 100, for the lot. Cash. J. W. Dunford, Clayton, Mo.

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Augustus Zirngelbel, Needham, Mass.
Giant Pansies.

I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

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Samuel W. Shanklin, White Marsh, Md.
Celery Plants: Cabbages.

Grand Rapids lettuce plants, A1 stock,
now ready to ship, 20c per 100, by mail;
\$1.00 per 1000, by express. S. J. McMich-
ael, 142 Larkins St., Findlay, O.

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VENTILATING MACHINERY, New
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VIOLETS.

Malcolm Orr, N. Saugus, Mass.
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5000 clumps California violets, ready now,
finest stock in the west, 4 1-2 c. 250 or
more at 4c. J. W. Dunford, Clayton, Mo.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 88 40
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The "Just Right" kind. Send for price
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BETWEEN YOU AND ME, What do you think of the Buyers' Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—A man to take charge of the growing of Roses, Carnations and other plants usually grown in a retail establishment. First class references required. State wages and experience in first letter. About twelve thousand feet glass. F. G. Danforth, Skowhegan, Me.

SITUATIONS WANTED

SITUATION WANTED—German, by a practical cut flower and pot plant grower, also experienced in landscape gardening, vegetables, etc., 35 years of age, married, two children. Sober, industrious and reliable in all branches; best of references. Address, L. L., Box 67 Johnsville, Dutchess Co., N. Y.

FOR SALE

FOR SALE—20,000 feet of land, two greenhouses 20x60 and 12x50 respectively, with nice office; dwelling with six rooms and bath, with good will of greenhouse business. Five miles from Boston. Three lines of cars pass the door. Address Rob. Care Horticulture, 11 Hamilton Pl., Boston.

FOR SALE—A retail florist store situated in the town of Union, N. J. Excellent opportunity for right party to secure a good paying business. Reason for selling; am going into the undertaking business. Terms reasonable. Address, William Schumann, 223 Bergenline Avenue, Union, N. J.

TO LET

GREENHOUSE TO RENT AT WELLESLEY, MASS.

for term of years, greenhouse 23x27 1/2 ft., with dwelling, five rooms and bath. Apply to

WELCH BROS.,
226 Devonshire St., Boston

STOCK WANTED

WANTED—Aspidistras, green and variegated in exchange for orchids and stove and greenhouse plants. Address, Aspidistra, Care Horticulture.

LIST OF PATENTS.

Issued August 27, 1907.

- 864,170. Cultivator Guide. Robert M. Jones, Lathrop, Cal.
- 864,189. Draft Attachment for Agricultural Implements. Andrew J. Peddy, Henderson, Tenn.
- 864,234. Potato Digger. William J. Ellard, Ottawa, Ont., Canada.
- 864,244. Cultivator and Harrow. Burwell E. Huguley, Danbury, Ga.
- 864,286. Attachment for Cultivator Beams. William H. Barmham, Moody, Texas.
- 864,288. Harrow. Frank P. Bowman, Bridgewater, Va.
- 864,337. Riding Attachment for Harrows. Luther E. Roby and Clarence A. Pattison, Peoria, Ill.
- 864,561. Seed Drill. Luther E. Roby, Peoria, Ill.
- 864,562. Seed Drill. Luther E. Roby, Peoria, Ill.

?

Is Your Name In The Above List? If Not, Why Not?

WILSON'S PLANT OIL

If you want to make money there is only one way. That is to have clean stock and the only way to get it is by using WILSON'S PLANT OIL.

New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
 Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
 Yours very truly,
 GEO. A. SKENE.

Florham Farms, Madison, N. J., December 8, 1906.
 Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
 Yours truly,
 A. HERRINGTON.

PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

ANDREW WILSON, Dept. 8.

SUMMIT, N. J.

THE PHILOSOPHY OF WHOLESALE.

Continued from page 359.

markets and business by his up-to-date methods; he has careful men to handle and pack the stock, storage boxes in which to keep the stock in good condition, proper boxes to pack in, telephones, a place of business close to railroads and express companies, and, in fact, has worked and developed his business until today he is indispensable.

He, however, cannot do business unless he has the stock to do it with, which means he must give his growers satisfaction. I believe if the growers would see their wholesaler more often, see how their stock arrives from the express company, how it is handled, etc., and keep in closer touch with the wholesaler, it would be to their advantage, as many times flowers which are in seemingly good condition when shipped, arrive in bad condition, due to improper packing and other causes which could be remedied, and it does seem too bad that in a few short hours all the work and trouble which has been taken to produce good stock, should go for naught, simply for the want of proper packing, cutting or keeping. Therefore, I say again, Mr. Grower, keep in close touch with your wholesaler.

I also believe that, in these times of specialization, it will pay the good grower to grow what he can produce best in quantity rather than to grow a number of things indifferently. Get the opinion of your wholesaler on this. He can do better for you if you have a large quantity of first-class stock rather than if you supply a number of small lots of poorer stock. I think this is generally recognized by growers, although some of them still send all kinds to the wholesalers and expect the same results as the man who sends good stock.

It is often said by retailers that the price of flowers is so much higher than it used to be, but do they take into consideration that the quality is just as much better? A wholesaler cannot sell the fine long-stemmed stock of today at the price of ten years ago for short-stemmed stock, and please his growers. In this connection I want to say that the wholesaler is accused unjustly many times of raising prices unnecessarily, but do his accusers ever stop to think that the law of supply and demand does more to control prices than any wholesaler or combination of wholesalers?

One trouble with a great many of the wholesale man's customers is that they want to be both buyer and seller. I might also say a word in this connection about the retailer who takes advantage of a falling market by not dropping his prices, but that would not be pertinent to the subject, perhaps.

I said, in speaking of the growers, that a wholesaler could not do business unless he had the stock to do it with, nor could he do business if he had no customers to whom to sell. I do not believe the retailers are using the wholesaler to the same advantage in our city as is done in some other big cities. What I mean is this: The wholesaler has a large stock of flowers on hand usually early in the morning. Now, it seems to me, if the retailers were to come or send their buyer to market, they would do much better for themselves than by ordering some of this or some of that, several times during the day. Think of the variety he would have to select from. And then, too, he would oftentimes be able to pick up lots of certain stock at better figures than if he bought only a small quantity. The wholesaler in selling a big quantity at once would also be able to make better returns to his growers than if the stock were sold in small quantities and picked over, thereby losing value.

It seems to me that the retailers generally expect a great deal more from the wholesaler than they should. I am not speaking altogether of service, but I do think that after the wholesaler has used his best efforts to serve a customer for a month, oftentimes procuring and delivering stock at a loss, it is up to the retailer to meet his bills promptly. I know this to be a sore subject generally among wholesalers, but I think our business has grown to such proportions that the same or better business methods should be as effective in the florist business as they are in others. The wholesaler pays his growers once a month, some twice a month and some weekly, and in order to do this, he has to collect his accounts on time.

I think it pays the wholesaler to cultivate as close business relations with his customers as possible; try to give the best service and the best stock procurable, and in return the retailer should do his part and show his appreciation of what has been done for him by the wholesaler.

In conclusion, I want to say that

my experience in the wholesale business has been recently acquired, and perhaps I will know more and talk less ten years hence. I can speak with some authority from the grower's standpoint, as I have had considerable experience in this line, and also a little in the retail line, so that I have had some opportunity to gather ideas from all sides.

WASHINGTON FRUIT TOPICS.

James C. Crowell, an orchardist at Kennewick, Wash., southwest of Spokane, with whom the United States department of agriculture entrusted the care of several varieties of hardy orange trees for experimental purposes, has submitted his report to the secretary, saying that the citranges have done remarkably well and are in flourishing condition. The trees received a year ago, were heeled in last spring, and that they are adapted to the climate is demonstrated by the fact that they withstood zero weather. Mr. Crowell does not recommend that citranges be planted on a commercial scale to compete with Florida and California growers, but advocates the planting of small orchards for home use, as the fruit is sweet and juicy. This probably will result in the trees being planted in eastern Washington.

Estimates prepared by the state fruit inspectors show that the growers in Washington will receive between \$19,000,000 and \$20,000,000 for the products of their trees, bushes and vines this season, and of this more than \$10,000,000 will go to the orchardists in the Spokane country. The apple crop will be the heaviest in the history of the commonwealth, 3,772,105 trees in bearing being reported in 37 counties, hanging from 300 in Adams county to 1,248,900 in Yakima county and 311,000 in Spokane county. Almost 1,600,000 prune and plum trees and 746,956 peach trees are in bearing in the state, and in addition to these there are several hundred thousand cherry trees and as many more of pears. More than 3,000,000 crates of small fruits and berries were harvested this summer, and of this Spokane county supplied 31,840 crates of strawberries, for which the growers received from \$2 to \$3 a crate. The price of apples ranges from \$1.25 to \$2.25 a box of 50 pounds, the latter being for shipment to eastern and middlewestern markets. Prune picking in eastern and central Washington will begin in a few days.

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BEST PACKED,

EASIEST APPLIED.

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144 sheets.....	3.50
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Gallon.....	10.50
5 Gallons.....	47.25

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Meriden, Conn.—J. J. Bonell, house 18x60.

Holland, Mich.—W. Harkema, house 50x100.

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Erie, Pa.—Erie Floral Co., range of houses.

South Paris, Me.—Henry Schaffer, one house.

Athol, Mass.—George Sutherland, enlarging.

Fairhaven, Mass.—S. S. Peckham, house 25x128.

Brooklyn, N. Y.—P. Berlin, two carnation houses.

Rochester, Ind.—James Shelton, house 45x145.

Erie, Pa.—Offerle & Shaale, two carnation houses.

Erie, Pa.—Schluraff Floral Co., range of houses.

Worcester, Mass.—H. F. A. Lange, carnation house.

Newton Highlands, Mass.—A. H. Fewkes, enlarging.

Philadelphia, Pa.—Laurel Hill Cemetery, house 20x100.

Long Branch, N. J.—E. F. C. Young, conservatory 20x120.

Melrose, Cal.—E. Lacazette, two houses, each 25x150.

Mt. Washington, Md.—Mt. St. Agnes College, one house.

Montgomery, Ala.—W. B. Paterson, range of five large houses.

Toledo, O.—Searles Bros., range of five vegetable forcing houses.

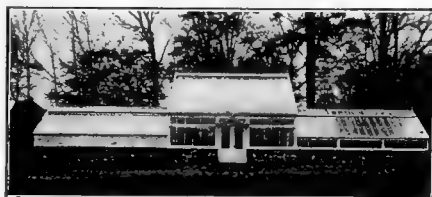
Snohomish, Wash.—Trubsnaw & Ferguson, vegetable forcing house.

Northboro, Mass.—George A. Brigham, 60-foot vegetable forcing house.

HAIL IN DES MOINES, IA.

Hail as large as walnuts fell in quantity in Des Moines on the afternoon of September 7, doing great damage generally and to greenhouses especially. Losses are reported as follows: Julius Ledig, 2,000 ft.; Vaughan's greenhouses, 15,000 ft.; Lambert's greenhouses, 3,000 ft.; Iowa Seed Co., 20,000 ft.; Hutchison, gardener, 2,000 ft. Practically everything was swept on the north side of the houses. Nearly all the above-named losses were covered by insurance.

San Jose scale and elm leaf beetle are rampant in many districts around Boston this year and tree wardens and others are kept busy fighting them.

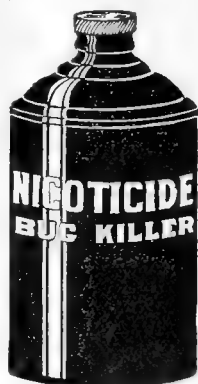


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3 ft.....	\$6.00 per 1000	5 ft.....	\$ 9.00 per 1000
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LIQUID
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PRICE \$1.50 PER BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES.

NICOTINE MFG. CO. ST. LOUIS MO.



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Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 3 1/4 " " 5.25	60 8 " " 3.00
1500 4 " " 6.00	
1500 5 " " 6.00	HAND MADE
2000 3 " " 5.00	48 9 in. pots in crate \$3.60
800 3 1/4 " " 5.80	48 10 " " 4.80
500 4 " " 4.50	24 11 " " 3.60
320 5 " " 4.50	24 12 " " 4.80
144 6 " " 3.16	12 14 " " 4.80
	6 16 " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

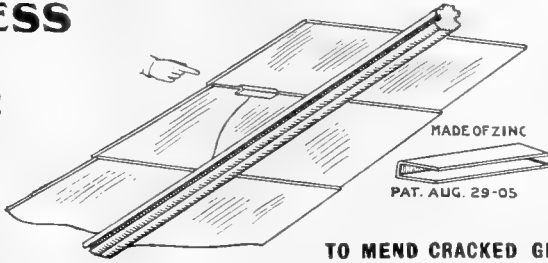
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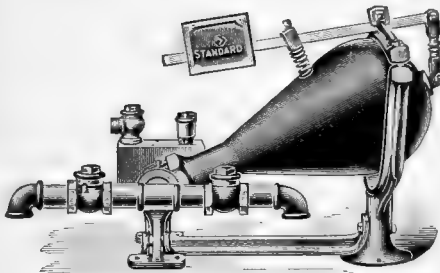
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gives shade and still allows free circulation of air.

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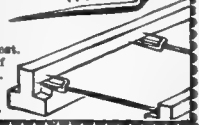
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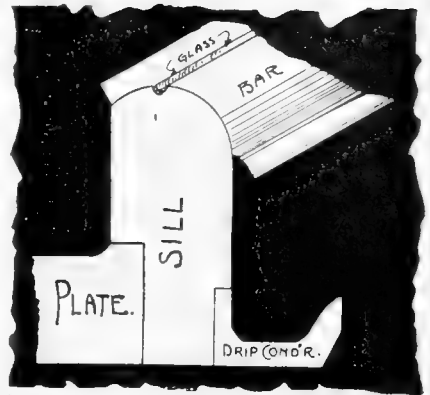
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that will make for you an enduring pipe bench. You see it clamps together, three pipes,—the legs, the side runner and the cross piece, making a braced combination that for rigidity and strength can't be beat. The eighteen new L. & B. Truss Houses of the United States Cut Flower Company at Elmira, N. Y., are entirely equipped with our bench fittings. No, they are not expensive — you must not be scared out by the prices we name on our circular—it's up to you to write for discounts. Send for the Pipe Bench Circular. It has other good things in it.

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HORTICULTURE

Vol VI.

SEPTEMBER 21, 1907

No. 12



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	100	1000		100	1000
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Nelson Fisher	6.00	50.00	Flamingo	6.00	50.00
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1000 Helen Goddard 100 Var. Lawson
500 Mrs. Patten 400 Cardinal
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Boston Market.....	10,000	4.50 40.00
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To unknown parties, cash with order or C. O. D.		
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CARNATIONS. Field-grown, White Perfection, Victory, Mrs. T. W. Lawson, Red Lawson, White Lawson, \$6.00 per 100, \$55.00 per 1000; Mrs. F. Joost, Genevieve Lord, Queen Louise, \$4.00 per 100, \$35.00 per 1000, 250 at 1000 rate

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SEND FOR PRICES
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Asparagus plumo-us nanus seeds..... \$2.25
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Cold storage Lily of the Valley pips, best possible grade, in cases of 1,000 and 3,000 pips each, at \$12.00 per 1.000.

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ROSE

2 1/4 in. Pots, \$10.00 per 100

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in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

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5,000 " " 12 to 18 "
40,000 " " 2 yr. seedlings, 8 to 15 inch.
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There are few more accommodating climbing plants than this *Polygonum* which has now become a firm favorite with all who know of its merits. It is equally at home whether covering a rough, unsightly fence, an arbor, arch or pergola, yet it is not seen at its best in any of these positions. It is most delightful in the position shown in the accompanying illustration, twining and clambering over some dark leaved tree, preferably a conifer, as for instance a juniper, *Thuja* or *Picea*. When once established it grows with extraordinary rapidity and soon festoons a tree with its slender shoots and graceful, creamy-white flowers. In the photograph the flowers are noticeable chiefly towards the top of the tree for the reason that the *Polygonum* is planted on the other side where the lower part of the tree is covered with its blossom. *P. Baldschuanicum* flowers in early summer and remains in beauty for several weeks. Although it grows most readily when established some find a difficulty in persuading it to make a start. When well rooted all aspects and positions come alike to it, it thrives in them all, but when planting it is wise to choose the coolest and shadiest side of the tree so that the roots may have cool moist soil in which to start. In such a position it quickly gets good root hold and when growing freely finds its way in and out of the branches in a most delightful way.

Harry H. Thomas



Season for Tree Pruning

The theories with regard to this important part of arboriculture have been studied and explained by able practitioners as to the best methods to perform it to insure the future healthy condition of the tree.

But sufficient consequence as to results is not attached to the season at which pruning should be done.

DeCurs in his admirable work translated by Professor Sargent, states that "a tree can be pruned at any season of the year and the best is that when it can be done the cheapest and the most convenient."

While attaching, and justly, great importance to the method of making necessary amputations, he attaches none whatever to the season at which this should be performed and which is certainly of equal if not paramount importance.

It is singular too that this statement is contradicted in another page—where it is admitted that "when pruning is done in the autumn sudden and severe frosts are dangerous, and have a tendency to induce decay in freshly made wounds." In the winter "the days are too short and stormy" and "in the spring there is danger of too free a flow of sap."

He also objects to summer pruning on the ground that the leaves will interfere with the progress of the workman—but this appears to be a futile objection because they will not be sufficiently developed to do this to any great extent if the operation is performed at the proper time.

Another objection is that there might be danger of other trees in the neighborhood of those operated upon being injured, but this could only be the result of carelessness, and damages thus caused would, if the season were right, be cured—at once. So far from its being immaterial as when trees should be pruned, I opine that it is of the utmost consequence that it should be done at a certain period of growth.

There is a well established axiom that a continual struggle is going on between growth and decay; one of which will eventually gain the mastery.

Thus when a surgical operation is to be performed the patient is prepared so that he may be in as healthy and vigorous condition as possible—vitality being necessary to a speedy and complete treating of the wound.

Reasoning by analogy, a tree is in the most perfect state of vitality when its sap is in the process of elaboration and assimilation and then it will be in the best condition to produce the new tissue required to cover and heal the cut which may have been made. It is a well established fact that sap has a double action mounting from the roots through every ramification of the tree, to the leaves, in a thin liquid, where it is elaborated, and these having absorbed and decomposed the carbonic acid, the sap descends again in a changed condition and is deposited year after year in the successive concentric layers which form the bulk of the tree.

If that be so the sap cannot be said to descend to the roots, but to have been used up in its progress thereto.

to fabricate the body of the tree. Now while this process is in progress it is easy to understand that important amputations are the least likely to cause decay, because the material required to heal them will be produced at once.

The practical results obtained by actual experiments fully maintain the correctness of this theory.

A number of fruit and ornamental trees pruned in the first week in July were partly healed of their wounds in ten days, and by the middle of August cuts two to three inches in diameter were completely covered with new bark. Now if these trees had been pruned in the autumn, after the elaborated sap had performed its annual functions, the wound could not have been healed and would have been affected by cold, and decay, instead of growth, would have had the first chance—the trees being dormant would have no latent force to repel this decay, which always commences immediately after all severing of parts when unduly exposed to cold, whether in plants or animals.

If the pruning were done at the proper time any application (even coal tar, which is no doubt the least injurious to vegetation) to prevent decay, would be avoided as in the course of the natural development of the tree the protective covering of the wound would be formed, and all applications are more likely to impede than to accelerate the new formation of bark.

In studying the mechanism of a tree the above facts as to the use it makes of the aliments with which nature has provided it wherewith to perpetuate its growth are easily observable, and are infallable guides as to that season of its annual development, when any artificial changes in its formation or character may be effected surely and safely, a matter of even greater importance than the manner of producing such change.

Geo. Moore

The Hippophae, Siberian Sand Thorn

(Also called Siberian Shepherdia or Buffalo Berry.)

This belongs to the *Elæagnus* or wild olive family. The race includes the Russian olive (*Elæagnus hortensis*), the *Elæagnus longipes*, and several other varieties. The Siberian *Shepherdia* was introduced by Prof. Hansen of Brookings, S. Dakota, after one of his Siberian raids for which he is so well noted, when he skims the cream off the land and takes it home with him.

We have just had the pleasure of looking over his grounds and we were greatly impressed with the possibilities of this shrub. There are two branches of this family; one has been cultivated a long time in France but it is not hardy as far north as St. Petersburg. Some trees and shrubs are hardy only in their own locality. Red cedar, grown in southern Illinois, is worthless in Minnesota; white spruce from Maine is of no account in Nebraska. The southern type of the Siberian sand thorn would be useless in our Northern States, but the Professor secured his from well to the north in Siberia and this same branch of the family reaches up to Lapland, making it one of the hardest shrubs in the world. For the Northwest, a shrub must meet two conditions; one is the intense cold and the other is the dry air of winter which sucks the moisture

from the top while the roots are frozen. In bright days in February, we have seen grape vines kill back an inch a day through the influence of the winter drouth. It is not enough that a tree resists the cold, it must also resist the dry air. The Siberian sand thorn does this. The air of Dakota puts this double strain on everything and it is a heroic shrub which can stand the test, but this one meets all the conditions and is as thrifty as can be desired. We never saw a tree or shrub which, in proportion to its weight, bore such an enormous burden of fruit. We have picked a gallon of fruit from *Elæagnus longipes* in Massachusetts, but in this instance the fruit was packed and crowded, clinging to the limb as if in danger of being pushed off, and many limbs were splitting with the weight of the berries. In color, they are glossy yellow. In taste, much like the Japan type, and here is a field for the professor to cross the two. The *longipes* are a little larger and longer and by combining the two the hardiness of the Siberian could be given to the other and perhaps a superior fruit could be evolved. When the West was new people would go a long distance after buffalo berries—these are a sort of winter currant and hang on a good portion of the winter.

We noticed quite a variation in the fruit of the sand thorn, some bushes having much larger berries than others and some, much sweeter. Two bushes were marked for their superior excellence, but when we went to gather the fruit, the birds got ahead of us and they were all gone. The bushes have been marked, however, and will be carefully watched for the next crop. The fruit is much used for tarts, jellies, and jams, and as it hangs on a long time it can be gathered when the rush of work is over. Selections are being made for size and quality and it will not be long before the professor, with his well known success, will evolve something of superior merit.

They are somewhat difficult to propagate and the professor is a little tried with the total failure of nurserymen who will not follow directions and do not get a plant from a bushel of seed. His method is to take the pulp from the seeds and then dry them. There is a coating to the seed which must be rubbed off. When dry they must be kept in a cool place till about the first of December when they are placed in sand and frozen. They must be planted the first thing in the spring under a screen, for the tiny plants, like young evergreens, incline to damping off. The plants should be bought by the dozen or more as they are male and female and only about half bear berries. They make a very ornamental hedge. The savage name of *Hippophae* (horse killer) does not refer to the fruit but to the sharp thorns which give it the dual advantage of hedge and wind-break.

How they will succeed in the Eastern States we cannot tell, but they are a known success in the great Northwest. Last spring was peculiar. May and January held a rollicking carnival. There was an alternation of 80 above and zero, in the same week. While the sand thorns were in bloom, it froze every night this year, but these heroic bushes paid no attention to a little thing like that and proceeded to cover themselves with a marvelous burden of fruit. The professor did a great thing when he introduced these shrubs, but the ultimate value will be in the improvements which he is sure to make.

York, Neb.

C. S. Hammond

Commercial Cypripediums

Cypripediums are admirably useful for floral work; they furnish an exceptional selection of curiously beautiful forms, of easy culture, which when cut are of good lasting quality and carry well. The choicer hybrids one must rule out for obvious reasons, though at the present rate of increase, these, at no distant day, will be both plentiful and cheap. The older types are equally beautiful for all practical purposes.

The need of the moment is for a selection of really meritorious varieties, of vigorous growth and proved floriferous character, giving a reasonable return for investment in quantity. A factor to be borne in mind when making initial outlay is that cypripediums increase in size and value more quickly than do other orchids; then, too, many varieties admit of cooler treatment, and if houses are set entirely apart and filled with kinds needing similar treatment, they may be handled as easily as carnations or roses. Varieties may be selected to secure a succession of flowers the year round, but winter flowering plants such as the following named would be more profitable.

One has often wondered why *Sedenii* and especially its lighter variety, *candidulum* are not more generally grown; if given abundant moisture they flower most freely and if flowers are cut singly one gets a succession of from six to nine on one spike. Given a plant with ten flowering growths, one may have from sixty to ninety blooms on a plant, covering a period of six months; what a houseful would produce is left to the reader's imagination. *Schlimii* is a little gem as a buttonhole flower, as free and easy to grow as *Sedenii* and may have same treatment. The old *insigne* is not to be despised for cutting but I would draw attention to *Sander's insigne montanum* varieties of much more elegant form and a great improvement on the type, many of them superior, in their white dorsal sepals and rich spotting, to either *Mauleior punctatum violaceum*. A goodly number of clear pale yellow forms of much charm are found in importations. Of the *insigne* hybrids *Leeanum* and its varieties are the most useful for cutting. *Arthurianum*, one of the earliest of *insigne* hybrids with the famed *Fairieanum* and having the unique and delicate grace of that variety, is strongly recommended. *Oenanthum superbum* is one of the best dark forms and easy to cultivate. *Lathamianum* combines the good qualities of both its parents—*Spicerianum* x *villosum*—and is worth growing in quantity. Of varieties with lengthy flower stalks suitable for vases are *Lawrencianum*, *Mastersianum*, and *Harrisianum superbum*, all vigorous and free bloomers. Of varieties with small flowers suitable for buttonholes and sprays, *venustum* and *Spicerianum* are useful; the latter may be used in wreaths with fine effect. *Niveum*, with its charming white flowers, may be added; though it needs more warmth and careful watering, it is well worth the trouble.

This list is fairly representative but may be augmented at pleasure. The point to insist on is high culture if they are to be a paying item. Shade they will require and not over much drainage. Use a rough turfy loam, peat and sand as compost; pot level. Sphagnum moss is useful but not necessary. Too much disturbance of the roots is against free flowering; repotting large plants every 3 or 4 years is sufficient. All the

varieties named with the possible exception of *niveum* are such as orchid salesmen are glad to offer at a cheap rate; novelties are the order of the day, and their rapid output places many beautiful varieties in the background which despised of the connoisseur will form the nucleus and in future the reserves of the orchid cut flower trade. In that development "Our Lady's Slipper" will find a prominent place.

Edgar Elvire

Plant Lice

Species of aphidadae, commonly known as plant lice or aphids, are frequently found on ornamental trees, shrubs and plants and roadside weeds. As they are a serious pest in many rose and carnation gardens and on fruit trees numerous inquiries are made concerning the best method to get rid of them.

The plant lice are about one-eighth inch long, green, gray or black and bottle-shaped, being much larger at the posterior end, and having two small honey tubes projecting back. The life-history is unimportant here, the fact that they multiply with amazing rapidity being the only point deserving special emphasis.

As the food of the insect is obtained by sucking the sap, stomach poisons as paris green or arsenate of lead are useless. Instead a substance which will kill by suffocation or penetration is required, or in other words, a contact poison. There are a number of these, all of which will prove effective as the soft-bodied louse is easy to kill. The only thing to be borne in mind is the necessity for hitting each insect, a provision which may make a repetition of the spraying necessary, as the great breeding powers will quickly furnish a new supply if any survive, as undoubtedly some will.

Kerosene emulsion is the standard contact insecticide. It is made by using whale oil or laundry soap, kerosene and water in the following proportions:

Soap	1-2 pound
Kerosene	2 gallons
Water	1 gallon

The soap is grated and dissolved in the water after the boiling point is reached. It is then removed from the fire and the kerosene added while the mixture is hot. All are thoroughly stirred and churned until a creamy mass results, which forms the stock solution. This may be kept indefinitely, and used when needed at the rate of one part to ten or twelve parts of water. Another good remedy is whale oil soap or fish oil soap dissolved at the rate of one pound to six gallons of water.

Tobacco decoction made by filling a pail with tobacco stems, covering with water and soaking for twenty-four hours is good. One-half a pint of the resulting liquid is used to a pail of water.

A number of satisfactory articles are sold under the name of "tree soaps," which are usually good, although the price is somewhat high. Not only are these remedies good for lice but when used in stronger doses will exterminate all the more resistant insects with which they come in contact.

R. L. Adams.

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The value of common things

In a summer such as we have just passed through, with lawns sere and brown and much garden material dried up and useless because of the lack of rain, the value of the tough little annuals which are so frequently forgotten in the craze for fancy novelties, becomes apparent. Many a garden bed pretentiously planted with asters of high degree, prize begonias and roses from which much was expected, has been saved from complete wreck through the persistence of such unconquerable subjects as the portulaccas, sweet alyssum, poppies, morning glories and old-fashioned petunias, often self-sown and actually stealing their way into the privilege of simply living. We are not referring to the garden under the constant watch and care of the skilled gardener with every facility at hand for combatting unfavorable conditions, but rather the little home garden of the artizan or business man which in time of stress must often take care of itself, but the existence of which means so much to the seedsmen and plant dealer. The useful qualities of the more resistant of these cheery little subjects under conditions of crude culture or sheer neglect are not always appreciated as they deserve, standing as they often do, between the amateur gardener and utter discomfiture and encouraging him to try again.

Lightening the load

The old saying attributing all kinds of witless simplicity to him who "doesn't know beans" loses its application after one has turned the pages of Mr. Tracy's elaborate bean report to which reference is made in another column of this paper. To know the hundreds of varieties of Boston's favorite food therein described is certainly an attainment far beyond the most of us. One result of the perusal of the report will be to establish a conviction of the absurdity of such a vast number of synonyms and the desirability of reducing to a reasonable length such a puzzling array of superfluous catalogue material. Substantial as is the reduction already made by Mr. Tracy we have no doubt it could and probably will be, in the near future, carried much further. The sentiments of the trade today seem to favor a thorough sifting out and general simplifying of the cumbersome seed, fruit and plant varietal lists and no better evidence that such is needed can be presented than we find in this exhaustive compilation which the Department of Agriculture has prepared. We can recall the time when the exhibitor showing the largest number of varieties of pears, running up into the hundreds, was the proudest personage at the shows of the Massachusetts Horticultural Society. Later on the ambition of the chrysanthemum grower took the same turn and today the devotees of the dahlia are frantically trying to excel one another in the list of sorts they can place upon the exhibition table. The chrysanthemum growers soon got tired of the caprice and now it only requires the production of a superior variety to drive the sensational variety of yesterday into oblivion. The British sweet pea society's course in reading out of recognition a host of superseded varieties is another case in point and we have no doubt that the dahlia lists will in due time get a similar slashing.

HORTICULTURAL EDUCATION AT AGRICULTURAL COLLEGES.

By Theodore Worth, Supt. of Parks of Minneapolis, Minn., at S. A. F. Convention, Philadelphia.

Mr. President, and Fellow Members of the Society of American Florists and Ornamental Horticulturists.

Ladies and Gentlemen,—I have been asked to prepare a paper on "Horticultural Education at Agricultural Colleges," and I hardly know how to approach the subject, for, personally, I have no experience whatever as a student or graduate of such an institution of learning.

I attended school until I was sixteen years old, and when I arrived at that, what I considered very ripe age, and barely graduated with figures which I don't care to remember. I was of the opinion that additional wisdom, to be gained from professors and books, was superfluous technical theory, which would be of little help in practical work. I thought it was a kind of polish that would wear off soon and most likely spoil the leather, and that it would be better to grease the boots to begin with and go to work, and so I did.

I served one of those good Old Country apprenticeships where I had to work three years, not only for nothing, but my governor had to pay my board besides. I don't know now, whether at that time I earned my board, but I had a feeling that I did that and more too. However, I graduated with honors as a full-fledged gardener, and I distinctly remember the great celebration that took place at that memorable time, which clearly shows that my memory was good under the most trying circumstances.

Since then I have followed the noble profession of gardening in many of its branches and in different lands and climates, and have found pleasure, contentment and happiness in all I have approached and worked at, and if I could return to boyhood and had a chance to make my selection of trade again, I would most certainly select the "gardener's" profession.

But, who has passed through life, successful or otherwise as it may be, who would not omit some things he has done and do some things he left undone, if he was to live the same period of life over again? No one—and it is through this, our experience, that we must attempt and endeavor to teach those that follow us, to become wise where we were unwise.

I therefore appear before you, not as a student or graduate from any horticultural college, but as one who wishes he had made use of the opportunity to be such, at the time he had the chance.

I have, in my professional life, come in contact with young men of practical schooling only, men of theoretical schooling only, and men of both, and I have often had occasion to envy the latter. I have observed, however, that among the former two, the first had by far the advantage, but I am convinced that a happy combination, in which the practical schooling is pre-

dominant, is the ideal course for horticultural education.

From prospectuses that I have read of different agricultural colleges, and through conversations which I have had with some of the leading teachers at such institutions of learning, I feel convinced that a sincere interest and support given those institutions by individual and combined effort of our craft, would result in a more progressive and beneficial treatment of horticultural subjects in general, and horticultural interests especially, than is at present the case and possible.

I feel assured those institutions are sincere and anxious to help us with all their available means and opportunities, and if we give them the glad hand of support, interest and appreciation, the combined efforts of both will be crowned with unbounded success to the benefit of all the far-reaching interests concerned. And who is better adapted and able to give that support, and who is closer to that calling than our S. A. F.?

I believe that our Society should take into earnest consideration what could and should be done to further our interests in the horticultural education of the younger members of our craft.

Let us exchange ideas how it might be done. I, for one, wonder whether it might not be possible to select one of the many excellent State Agricultural Colleges, one as centrally located as possible, to make the study of horticulture, and especially floriculture, a special attraction along lines which would meet with our ideas of practical, commercial usefulness. For instance, would it not be practical to have a college equipped with an up-to-date commercial plant, for the culture of plants both under glass and out of doors? Would it not be possible to market the products of this college plant at fair open prices, without creating an unfair competition to local trade in the vicinity of the institution? If so, would not this branch of such a college become more or less self-sustaining, and would not the very desire of making it so, and the need of successfully meeting such commercial competition, spur both teachers and pupils to achieve results far beyond the aim and the possibility of the ordinary college plant and experiment station?

If all this is possible I think it is well worth our while to secure it, and I think it should be our aim. A forceful, earnest combination of our interests and practical experiences with those of the scientific and theoretically advanced researches of the teachers of our colleges, I believe would result in horticultural education along most remunerative lines.

I should like to see some of our leading professional men connected with the Governing Board of such an institution, and I should want some of our successful practical gardeners on the staff of teachers. I should like to see the theoretical and scientific teachings of our professors of botany, entomology, chemistry, etc., brought into uninterrupted and closest contact with the practical experiments and demonstrations of our experienced leading practical gardeners, so that the teachings of both, supplementing each other, may tell the student why and how and when and where.

The merits of such an institution I think would speak for itself, and it seems to me would be universally recognized at any early date of its existence. Its beneficial and educational influence would not be limited to the building up of a young generation of well educated, practical craftsmen, but it would also become the central station of horticultural and floricultural interests in general, a place we all would want to visit, a trial and experimental station open to all introductions and products of our ever advancing skill and progress.

Its seal of merit and excellence should be the coveted prize of professional advancement, achievement and ambition.

Every year a number of our successful and leading fellow craftsmen go to Europe on a combined pleasure and business trip, and we all know that travelling with open eyes means to learn and profit. If a few such travellers would act as a committee and together visit some of the horticultural schools of Germany, France and Switzerland, I believe some of the things they would see there would be helpful towards the realization of my dream herein outlined. True, conditions and requirements here and there differ greatly, but in a general way our aims are the same. There and here we must have and do have at heart the advancement of our noble calling, the profession of a "Gardener," of which I pride myself to be a member, and anything that can be done to further such advancement through combined and individual effort should receive our hearty and active support.

HYDROCYANIC-ACID-GAS FOR WHITE FLY.

Editor of Horticulture,

Dear Sir: I have a greenhouse 12x75 where tomatoes have been growing this summer and the house has become infested with white flies. Please give me the name of that gas that destroys them, also the amount and how to mix and oblige, W. D.

White flies may be eradicated by the use of hydrocyanic-acid-gas used in the proportion of one ounce of pure cyanide of potassium for each 1,000 cubic feet of air space in house, and left over night with all apertures closed. To breathe the gas is fatal, hence great care must be exercised and some way devised for opening the ventilation from the outside after fumigating to clear the house before attempting to enter.

The materials required are 98 per cent cyanide of potassium and commercial sulphuric acid. Small earthen jars are placed in the paths of the houses, one to about every 50 feet in length of an ordinary 18-foot wide house. Into each jar is put first water and then sulphuric acid in the proportion of about half a pint of water and three-quarters of a pint of acid to which eight ounces of cyanide is added later. The cyanide crystals should be wrapped in two or three thicknesses of paper and, when all is ready, dropped into the jar either by a string controlled from outside or by dropping in by hand and then sprinting for the door.

NEWS OF THE CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The first meeting of this club for the new season was held in Horticultural Hall last Tuesday evening. The attendance was large—fully one hundred and fifty members being present undoubtedly attracted by the announcement that Mr. R. G. Leavitt of the Ames Botanical Laboratory would talk on the interesting topic of cross-fertilization. Mr. Leavitt evidently "made good," for he held his audience so deeply engrossed for nearly an hour and a half that they didn't know where the time had gone. Mr. Leavitt said that a plant is a machine with a definite structure intended to perform a definite work, and that the hybridist, to attain successful results, must first understand the machine with which he proposes to work. He showed how mysterious laws of cross-breeding are being gradually understood and codified, and how slow must be the work of the scientist in this vast field where, as yet, very few general laws have been determined upon which hybridists agree. The hybridist, when he starts in, cannot tell what is going to happen, each plant being a law unto itself. He then took the specific subject of the mechanism of reproduction, showing by means of a blackboard to various pistillate and staminate organs of flowers, and the operations of pollen and ovary in the process of fertilization, and explaining in detail Mendel's law of hybridization. A hearty vote of thanks was accorded. A vote of thanks was passed expressing the appreciation by the club of the many courtesies extended to its members by the Florist Club of Philadelphia on the occasion of the recent convention.

On the exhibition tables were some interesting contributions, including large specimen plants of *S. A. Nutt* and *La Brette* geraniums from Wm. Nickerson, assistant gardener with James Wheeler at Elmhurst; *Nymphaea Tryon* from Carl Blomberg of the Mrs. A. C. Ames estate, Chatenay and Testout roses from George Page of Newton Highlands, *Helenium autumnalis superbum rubrum* from F. J. Rea, and *begonias semperflorens, gracilis luminosa* and *Fireball* from F. E. Palmer, Brookline.

PENNSYLVANIA HORTICULTURAL SOCIETY.

The monthly meeting of this society was notable for the fine display of outdoor flowers, such as September asters, cannas, dahlias, tritomas, phloxes and various other seasonable subjects. The exhibition of vegetables for the Bodine prizes was also a feature and proved a hard job for the judges to decide between the four very meritorious collections staged. The show was free to the public during Tuesday and Wednesday.

The competition in dahlias was meagre, Joseph Hurley, gardener to James W. Paul, staging the best lot. Samuel Crowther, gardener for Mr.

Brown, also had a fair showing. The season has been backward and too dry, and dahlias are not yet at their best. Asters reflected credit on the chief exhibitors, Messrs. Hurley, Crowther, and William Robertson, gardener at Fair Acres. The latter had also a good showing of hardy phloxes for the Dreer prizes, and a general collection of herbaceous perennials in the same section. The most exciting feature was the competition for a collection of vegetables on a space 41x48 inches. Samuel Hammond took first, Jno. McCleary second, and Joseph Hurley third; but it was a hard matter to tell which was best. W. P. Peacock staged a good collection of named dahlias and was to have appeared personally to talk on same but was unable to attend.

SOCIETY FOR HORTICULTURAL SCIENCE.

Program of the fifth annual meeting held in connection with the meeting of the American Pomological Society at the Jamestown Exposition, September 24, 25 and 26, 1907:—

The Relation of the Adams' Fund to Horticulture, L. H. Bailey, Cornell University.

Importance of Bud Variations and Mutations in the Development of Citrus Varieties, Herbert J. Webber, Cornell University.

Originating New Fruits, G. B. Brackett, U. S. Pomologist, Washington, D. C.

The Origin and Improvement of Some Horticultural Varieties in Ohio, W. R. Lazenby, Columbus, Ohio.

Mendelian Characters in Tomatoes, U. P. Hedrick and N. O. Booth, New York State Experiment Station.

Mendel's Law Applied in Tomato Breeding, A. G. Craig, Pullman, Washington.

On Methods of Breeding for Disease Resistance, W. A. Orton, U. S. Department of Agriculture.

The Plan and Side Issues, C. S. Crandall, Urbana, Illinois.

Plant Breeding as a University Course, John Craig, Cornell University.

Seasonal Influence in Carnation Crossing Relative to Seed Production, William Stuart, Burlington, Vermont.

The Technique of Hybridizing the Potato, E. M. East, New Haven, Connecticut.

Experiments in Strawberry Breeding, S. W. Fletcher, Agricultural College, Michigan.

Breeding to Overcome the "Little Peach" Disease, L. R. Taft, Agricultural College, Michigan.

Variations in Swayzie Apple Seedlings, W. T. Macoun, Ottawa, Canada.

Xenia in Apples, C. P. Close, College Park, Maryland.

Meetings will probably be held in the Court of the States Exhibit Palace. The time of meeting will be announced at headquarters at the Inside Inn, where reduced rates have been secured for members of the society. This hotel will also be headquarters for the other horticultural societies which convene during the week of September 23-28. It is quite likely that some of the meetings will be held jointly with the American Pomological Society.

CHRYSANTHEMUM SOCIETY OF AMERICA.

President Loveless has announced the committees to examine seedlings and sports on dates as follows: Sept. 21-28, Oct. 5-12-19-26, Nov. 2-9-16-23 and 30, 1907. Exhibits to receive attention from the committees must in all cases be prepaid to destination, and the entry fee of \$2.00 should be forwarded to the secretary not later than Tuesday of the week preceding examination, or may accompany the blooms. Special attention is called to the rule requiring that sports, to receive a certificate, must pass three committees.

Philadelphia—A. B. Cartledge, chairman; John Westcott, William K. Harris. Ship flowers to chairman, 1514 Chestnut street.

Cincinnati—R. Witterstatter, chairman; James Allen, William Jackson. Ship flowers to Jabez Elliot Flower Market, care of janitor.

Chicago—J. B. Deamud, chairman; Andrew McAdam, George Asmus. Ship flowers to chairman, 51 Wabash Ave.

Boston—Elijah A. Wood, chairman; William Nicholson, James Wheeler. Ship to Boston Flower Market, 1A Park St., care of chairman.

New York—Eugene Dailedouze, chairman; William Duckham, A. Herrington. Ship flowers to New York Cut Flower Co., care of chairman, 55-57 West 26th street; all flowers to be on hand by 2 p. m. on day of examination.

Official scales of the C. S. A. are as follows:

For Commercial Purposes.	For Exhibition Purposes.
Color .....20	Color .....10
Form .....15	Stem 5
Fullness .....10	Foliage 5
Stem .....15	Fullness .....15
Foliage .....15	Form .....15
Substance .....15	Depth .....15
Size .....10	Size .....35

Total100 Total100

The following named gentlemen have been secured to pass on the exhibits at the New York show, to be held November 6 to 8, 1907: Eugene Dailedouze of Flatbush, N. Y., James Wheeler of Brookline, Mass., William N. Craig of North Easton, Mass. The show promises to be the best the society has ever held. Make your arrangements so that you will not be obliged to miss it. Send to the secretary for a list of premiums and try to recall if your dues for 1907 are paid.

Work of Committees.

Cincinnati, Sept. 7th.—Golden Glow (Japanese) exhibited by Nathan Smith & Son, Adrian, Mich., scored 90 points commercial scale. The judges speak very highly of this variety, and say it is O. K. in every way, and will be a valuable addition to the early flowering varieties. It was shown in Pittsburgh, Sept. 3rd, in fine shape.

DAVID FRASER, Sec'y.

THE EXHIBITION SEASON

EL PASO COUNTY HORTICULTURAL SOCIETY.

The exhibition of this society which was held at Colorado Springs, Colo., on August 21 to 23, was the best they ever had, financially and also in quality. With a schedule of more than 300 classes and over 1200 entries it is hardly necessary to say that the officials had plenty to attend to. The photograph here introduced shows one section of the tents, the central display being from Glen Eyrie Gardens, the estate of Gen. W. J. Palmer, in charge of C. U. Fohn, head gardener, this exhibition being not for competition. It comprised tuberous begonias, gloxinias and decorative foliage plants.

In the professional classes, the Pike's Peak Floral Co., Frank Hayden and Wm. Clark, local growers, share the principal honors in cut flowers, plants, and decorations, with Frank Hayden of the Colorado Springs Floral Co., in the lead. W. W. Wilmore of Denver easily took first place amongst the large outside growers in the cut flower professional growers' classes, and his exhibit of dahlias was the equal of anything heretofore shown in this country; he also showed some new and beautiful strains in gladioli classes.

In perennials John Berry made a wonderful exhibit from the Monument Valley Park. Mr. Berry has been in charge of the vast and wonderful transformation which has taken place in this heretofore wilderness of a creek bottom which contains upwards of 1500 acres and cost nearly one million dollars, the whole of which has been paid by General Wm. J. Palmer.

In the Corporations and Public Institutions groups, W. H. Dunman of the Union Printers' Home carried off many honors and prizes, while Edwin W. Pierce of the State school for the Deaf and Blind (while at some disadvantage owing to the new additions to the buildings) came a good second. The exhibits from the pupils of the public schools and in the sweet pea classes were not up to the usual standard. This was due entirely to the unfavorable condition of the early spring.

The prizes offered by the society amounted to about \$1500 in cash, besides many valuable cups and other good things. These shows are always held in the centre of the city, in what is known as the N. Park, and this, the ninth, was more liberally patronized than any previous one, so that after paying all debts the society starts the new year's work for civic improvement with a surplus on hand.

NATIONAL DAHLIA SOCIETY.

On September 5th and 6th the above named society held its annual exhibition at the Crystal Palace, Sydenham. A liberal prize schedule was provided and altogether there were 47 classes in which money prizes, medals and several silver challenge cups were offered for competition. In the competitive classes provision was made for all kinds of growers of the various types of dahlias, 3, 6, 12, 18, 24 and 48 cut blooms being the rule. Exhibits in

vases and other floral displays were in excellent form, while the non-competitive miscellaneous displays from the trade were in some cases of great interest and importance.

Most of the well-known dahlia specialists were represented. Messrs. T. S. Ware & Co.'s flowers were artistically arranged in tall bamboo supports, with a front edging of *Isolepis gracilis*. Hobbies Limited also had a fine display, among them the new peony-flowered varieties K. A. Victoria pale lemon yellow, Dr. Van Jansen reddish deep crimson, Rosen Van Groeneker yellow buff, all of them big massive blooms of this modern type.

Messrs. H. Cannell & Sons are well known growers of the dahlia and they staged an imposing and effectively arranged lot, in which the peony-flowered were also well in evidence, Glorie de Baarn, Reine Wilhelmina,

lie Hall, Amos Perry, Beauty of Seven-oaks, Phyllis, etc. Show dahlias: Crimson King, Dr. Keynes, Canary Bird, Mrs. Gladstone, Henrietta, Mrs. Glasscock, Dante, Warrior, Norma, Mrs. Morgan. Pompons: Bacchus, Phoebe, Jessica, Distinction, Gany-mede, Snowflake, Little Bugler, Nerissa, etc. Cactus varieties were by far in the majority. First-class certificates were awarded to the following cactus varieties, viz.: C. E. Wilkins, beautiful shade of salmon rose tinted buff in the centre; Ivernia, very large bloom, bronzy buff tinted deep rose; Rev. A. Bridge, yellow centre, edges of florets tinted deep rose; Mauve Queen, very soft shade of rosy mauve, white centre. Decorative cactus: The Bride, pure white. Singles: Peggy, a pretty flower, rich reddish terra cotta, the outside edged deep rose, yellow centre; Crimson Prince, a beautiful



VIEW IN EXHIBITION OF EL PASO COUNTY HORTICULTURAL SOCIETY

Herzog Heinrich and others being all in good form.

Other good decorative stands were set up by Messrs. Scale, West, Mortimer, John Walker, Burrill & Co., Stredwick, Cheal & Sons, Keynes, Williams & Co., and others.

In the big cut bloom class for 4, distinct, J. Walker came in first for a fine collection of the old florists' show dahlia. Some of the most attractive in his stand were Perfection, Victor, Colonist, Harbinger, Hero, Harrison Weir, Blush Gem, Diadem, Criticism, Lord Salisbury, Shirley Hibberd, John Rawlings, and Miss Cannell.

The first prize in the class for 24 cut blooms old show dahlia was awarded to Keynes, Williams & Co.

Of the many other minor classes we can say but little, considerations of space having to be taken into account. But, going round the exhibition, we noted among the various lots staged good examples of the following: Singles: Robin Adair, Kuroki, Flame, Dorothy, Juno, Victoria, Fabian, Les-

flower, rich velvety crimson with yellow centre. One or two others received similar distinction.

C. HARMAN PAYNE.

London.

ROYAL HORTICULTURAL SOCIETY.

The weekly show on Tuesday, Sept. 2nd was small and select, and characterized by masses of one thing in quantity: for instance, Kelway & Son had a table displaying on it seventy large exhibitors' vases, each holding three spikes of one variety of gladiolus. Aphrodite is a lovely pure white, and Purity another, the last securing an A. M. Primrose is a perfect yellow, with large, individual flowers, long and well poised spike. Rocksand is a rich, crimson scarlet, Alexander Edward a lovely soft cinnabar red and Bond a fine yellow. Lady MacDonald is a deep purple, and Mrs. E. West an exquisite soft lilac. At the back of these was a record exhibit by the Leonardslee gar-

dener, of cut pentstemons, all of the large gloxinia-formed kinds which, even at the close of the show, showed no sign of flagging, but how this was compassed was a puzzle till I inquired and found that each spike, as cut, was placed in a vessel with ample water, so that it had not time to wilt. Some of the sorts were named, but provided you secure a good strain of seed, it is not necessary to propagate by cuttings. Then Guilim had cut double begonias in boxes of all shades of color, the yellows and scarlets being perfect, and the whole occupied one side of a 50 ft. table, while at the back Gunn & Sons had a bank of phlox, embracing a number of fine novelties. Then Mr. H. J. Jones of chrysanthemum fame put up a bank of hybrid fuchsias—fulgens, corymbosa, serratifolia, Dominiana—all of which must prove useful to the decorative florists, as the color of flower and habit of growth, combined with freedom of flowering, must ensure their popularity. One named Coralle (Lemoine) gained an award of merit from the floral committee. Gartenmeister and Fraudchen Bonstedt are two excellent kinds. Perle is a dwarf pale variety, and Eros a fine crimson.

Novelties were scarce, but Veitch & Son deservedly took a first-class certificate for *Cattleya* (Iris) His Majesty, in every way worthy the honor and the name, and another noble orchid was shown by Charlesworth—*Cattleya Gaskelliana alba*. An A. M. was also taken for a yellow semi-double *Gailardia grandiflora*, very promising, from Harrison & Son, named Lady Rolleston. Mr. Shoesmith took an A. M. for cactus dahlia Ella Elrich, of most lovely form and color, and also put up Snowdrift (white), Buttercup (yellow), and a fine dark maroon A. H. Gale. Fruit was mostly shown on trees in pots, the Cranston Nursery Co., Cheals, and Veitch & Son having some well-fruited pyramids in pots of leading kinds, while the first named had grape vines carrying a good crop of the leading varieties, and Veitch a fine collection of figs, as bushes and cordons, all carrying good crops.

Veitch's novelties were *Artimesia cactiflora*, with foliage like an astilbe, and loose panicles of whitish flowers, the North China monkshood, *Aconitum Wilsoni*, and plants of *Senecio clivum* show a financial success. Al-how much this plant varies in foliage, size and form of flowers, when so raised.

THOMAS BUNYARD.

A Montreal Flower Show.

Westmount flower show was a success. It was held under the auspices of the Westmount Horticultural Association in the Victoria Hall, last Saturday, 14th inst. Among the prizes offered were those for the plants given out to the school children last spring. Prizes awarded in the garden competition were also presented.

The craft in Montreal are trying all means to make our next chrysanthemums show a financial success. Already some friends of the club are approaching the members of the legislature for a grant. Others are offering to the club the services of a popular military band of this city.

COMING EXHIBITIONS.

Rhode Island Horticultural Society.

The Rhode Island Horticultural Society will hold its annual November exhibition at Providence, R. I., on Nov. 15 and 16. Chrysanthemums, carnations, etc., are liberally provided for. The secretary's address is C. W. Smith, 27 and 29 Exchange St., Providence, R. I. William Appleton is superintendent of the hall.

Worcester County Horticultural Society.

The Worcester County Horticultural Society will give the following exhibitions at Horticultural Hall, Worcester, Mass.: Thursday, September 26, cut flowers, fruit and vegetables; Thursday, October 10, fruit and vegetables, annual dinner of the society at 12.30 p. m.; Thursday, November 14, chrysanthemums. Adin A. Hixon is secretary; address Horticultural Hall.

Horticultural Society of Buffalo.

The first annual Flower Show under the auspices of the Horticultural Society of Buffalo will be held at Buffalo, N. Y., on November 11 to 17, 1907, inclusive. The preliminary list of premiums has been issued and shows some very liberal prizes for chrysanthemum plants and flowers, decorative plants, orchids, carnations, roses and floral arrangements. It is stated that Buffalo's Flower Show will be the best exhibition seen east of Chicago in many years. Copies of rules and entry blanks may be obtained from John H. Tranter, Sec'y, P. O. Box 904, Buffalo, N. Y.

Florists' Club of Washington.

The Florists' Club of Washington has issued the Preliminary List of Awards offered for their annual exhibition which is to be held in the National Rifles' Armory, Washington, D. C., on November 12, 13 and 14. Copies of same may be had by addressing Charles McCauley, 18th and Kearney streets, N. W. Washington. The list comprises 140 classes, which cover a wide diversity of plants and flowers under commercial and private divisions. The proceeds will be devoted to charitable institutions. Peter Bisset is president of the club.

Monmouth County Horticultural Society.

The tenth annual exhibition of the Monmouth County Horticultural Society will be held in Frick Lyceum, Red Bank, N. J., on Wednesday and Thursday, October 30 and 31. Copies of the premium list may be obtained from H. A. Kettel, secretary. This is essentially a gardeners' exhibition, and some of the best chrysanthemum growers in the country will compete.

New Haven County Horticultural Society.

The New Haven County Horticultural Society will hold its usual chrysanthemum show early in November. Prize schedules will soon be ready and

can be had from Walter Koella, Sec'y, 58 Bishop street, New Haven, Conn.

Horticultural Society of Chicago.

The annual exhibition of the Horticultural Society of Chicago will take place on October 31, continuing until November 6. The preliminary schedule, which has been received from E. A. Kanst, assistant secretary, 5700 Cottage Grove Avenue, Chicago, is quite lengthy and generous, there being 156 regular classes in flowers in plants, with prizes ranging from \$3.00 up to \$100.00 each.

Denison Civic Improvement League.

The Denison Flower Show to be given under the auspices of the Denison Civic Improvement League, at Denison, Texas, on November 6, 7 and 8, promises to be quite an extensive affair, judging from the 474 classes provided for in the prize schedule. A number of the classes are quite unique and evidence a determination to interest all classes and ages of possible exhibitors or visitors. Copies of the very interesting and handsome schedule may be had from the secretary, T. W. Larkin.

Illinois State Fair.

The great Illinois State Fair will open at Springfield on September 27 and close October 5, under the management of the Illinois State Board of Agriculture. The horticultural department as classified in the schedule concerns only fruit, which, to be eligible for competition, must have been grown in Illinois by the exhibitor. All vegetables are included under the classification of farm products, in which cereals are especially prominent, some idea of the scale of this department being possible for the reader when we quote the first prize \$50.00 for bushel of seed corn, Illinois grown, the same duplicated in the "open to the world" class, and similar premiums for white seed corn, the corn premiums alone amounting to about \$3,000.00.

The premiums under the classification of floriculture exceed \$2,300.00, and are very liberal in the cut flower classes. For instance, fifty American Beauty roses have a first premium of \$50.00, and fifty other roses \$12.00 each, and the lesser classes are on the same scale; \$25.00 for 100 carnations and \$6.00 each for the exhibits of 50 carnations in the various colors may also be quoted. The plant list is somewhat disproportionate in certain classes. Entries close Wednesday, Sept. 25. Roses and carnations must be staged by noon, October 1, and other cut flower exhibits, designs, etc., by noon, October 2. Robert O'Dwyer, Monroe and Desplaines street, Chicago, is superintendent and J. F. Ammann, Edwardsville, is assistant superintendent, and prize lists can be supplied by either of these gentlemen upon request.

The following were mentioned at length in last week's issue of HORTICULTURE:

Nassau County Horticultural Society, Glen Cove, N. Y. Special dahlia show in connection with October meeting.

State Floral Society of Arkansas, Little Rock, November 14 to 16.

Lenox Horticultural Society, Lenox, Mass., Oct. 23 and 24. Geo. H. In-stone, Sec'y.

Wappinger's Dahlia Society, Park Hall, Wappinger's Falls, N. Y., Sept. 20 and 21.

New Jersey Floricultural Society, Orange, N. J., dahlia exhibition, Oct. 4. Henry Halbig, Sec'y.

Tarrytown Horticultural Society, Tarrytown, N. Y., Nov. 6, 7 and 8. E. W. Neubrand, Sec'y.

Massachusetts Horticultural Society, Horticultural Hall, Boston. Chrysanthemum show, Nov. 8, 9 and 10. W. P. Rich, Sec'y.

Maryland State Horticultural Society, Fifth Reg. Armory, Baltimore, Dec. 3 and 4. Thos. B. Symonds, College Park, Md., Sec'y.

ST. LOUIS FLORISTS' CLUB.

"Installation Meeting" took place Thursday afternoon, September 12th. When President Irish took the chair and opened the meeting there were twenty in attendance. Walter Retzer, who is with the St. Louis Seed Co., made application for membership, and two new members were added to the roll, L. M. Van Hook, grower, and D. Bova, a retailer.

The newly elected officers were duly installed by President Irish, assisted by J. W. Dunford and E. W. Guy, both ex-presidents. Those who were installed in turn were: Trustee, Chas. Schoeule; treasurer, Fred H. Weber; secretary, A. J. Bentzen; vice-president, G. H. Augermuller, and president, W. C. Young. Each in turn on taking their respective offices made appropriate remarks. President Irish, on leaving the chair, also made a neat talk, in which he stated that the members should stand by the new officers and lend their support as they have in the past, and thanked them for their assistance given him in the past year. Ex-Secretary Beneke's report showed that the attendance during the year had averaged 25 per meeting. Ex-Treasurer Bentzen's report shows a good balance to the club's credit.

President Young stated that a letter from President Stewart of the S. A. F. indicated that St. Louis had sent the largest individual delegation to the convention from the West. The meeting then adjourned to a nearby cafe, where a fine lunch was spread at the expense of the new president, and the plans for the yearly meeting of the club and convention matters were talked over. The next meeting will take place Thursday afternoon, October 10, at two o'clock.

BUSINESS CHANGES.

Miss Georgie Scorgie is about to open a new flower store in the Medina Building, Somerville, Mass.

Johnson & Armstrong have taken the Coolidge Bros. greenhouse at South Sudbury, Mass., and will run it for carnations exclusively.

John Taylor has just started in the nursery and florist business at Fort Myers, Fla., and would like to receive catalogues of seasonable goods.

WE HAVE JUST RECEIVED IN PERFECT CONDITION A LARGE SHIPMENT OF

CATTLEYA MOSSIAE.

WE HAVE ALSO A LIMITED QUANTITY LEFT OF

CATTLEYA SCHROEDERAE.

The above shipments are the finest that have ever reached this country. We have also on hand a number of other Orchids, not yet potted, such as

Laelia Anceps, L. Autumnalis, Epidendrum Vitellinum, Miltonias,

IN VARIETY, ETC.

LAGER & HURRELL, . . . Summit, N. J.

During Recess

"Hang Sorrow; care will kill a cat
And therefore let's be merry."

WASHINGTON FLORISTS AT WHITE MARSH.

On September 17th at 11 o'clock, about forty Washingtonians took the train for Baltimore, where they were met by Mr. Vincent and about one hundred of the Monumental City craft. Thence they all proceeded to Cowenton, where they exchanged train for farm wagons, which conveyed them to the 40-acre dahlia farm of R. Vincent, Jr., and Sons. They were received here under a large shed beautifully decorated with cut dahlias and oak leaves, and were soon busy with a fine dinner served by young ladies, for the benefit of two churches in which Mr. Vincent is interested.

There are now six new houses under course of construction on the place, and six completed, 30x200 ft., filled with geraniums. After enjoying the dahlia display, which embraces all the finest and newest varieties, the train was scheduled to arrive. It was, however, an hour late, and as it steamed up a heavy rain and electric storm burst, which made all especially interested in getting into their respective coaches. Just before Baltimore was reached on the return, the train bearing the florists and families was run into by a heavy New York express, and what would have been a horrible accident, was averted only by the snapping of the coupling joining engine to train, as the former went crashing down a 20-foot embankment. The only casualty reported was the breaking of the engineer's arm. The accident delayed train about two hours, so it was 8 p. m. before Baltimore was reached. Here the excursionists were met by the Baltimore Florists' Club, part of whom took the ladies to supper, while the others escorted the men to the bowling alley, where Baltimore won two games. All then enjoyed a fine supper ordered by the Baltimore Club. The ladies of Baltimore bowled two games against the Washington ladies, and it goes without saying that the Washington ladies were victorious. There were also in the party five gentlemen from the Florists' Club of Philadelphia, who participated in all the festivities with true Philadelphia abandon.

It was about 1 a. m. when the train finally reached Washington, bearing a crowd very tired but thoroughly grateful for preservation from what might have been a horrible disaster.

NEWS NOTES.

Prof. A. B. McKay, J. F. McKay and R. L. Addkinson are to engage in the florist and nursery business at Madison Station, Miss.

A receiver has been appointed for the Albaugh Nursery & Orchard Co., Phoneton, O. The liabilities of the company are given as \$40,000.

John Ingraham has leased the Seawanhaka greenhouses formerly conducted by the late W. L. Swan at Oyster Bay, N. Y., and will grow carnations and orchids.

A gang of fern pickers in the woods at Kent, Conn., were arrested and fined a week ago on complaint of the Fel-louris Company of New York who had leased the fern picking rights on that territory.

At the weekly exhibition of the Worcester County, Mass., Horticultural Society last Thursday, George McWilliam showed Montreal musk-melons weighing from 19 to 21 1-2 lbs. each, and of delicious flavor.

John M. McKenzie, of North Cambridge, Mass., will move to his new office and salesroom on Massachusetts avenue, and the old Hutchins greenhouses which he has been occupying will be demolished.

H. C. Ostertag, F. W. Pape and C. Young have been appointed to represent the florists of St. Louis on the committee to raise funds to illuminate the city for the Million Population Club's celebration in latter part of October.

Andrew Wilson, Summit, N. J., of Plant Oil fame, is making a tour of the florists and gardeners of Boston, Lenox and other New England centres in the interest of his insecticide, the reputation of which had already preceded him, and he is getting a "bar'l of orders."

STRONG FIELD-GROWN

HYDRANGEAS

Ready for 7 in. and 8 in. pots,
\$5.00 and \$10.00 per 100.

Begonia Glorie De Lorraine

First-class stock.

4 in. \$3.00 per 100 2 1/2 in. \$12.00 per 100

Field-grown CARNATIONS

Enchantress, \$5.00 per 100

Calla House, Satisfaction Guaranteed

McRAE-JENKINSON CO., Cheswick, Pa.

Seed Trade

The Planters' Seed Company, of Springfield, Mo., are erecting a large warehouse.

As regards the quality of Dutch bulbs this season, the tulips and narcissi are the best. Hyacinths and crocuses are not more than of average quality.

From Connecticut again comes confirming reports that the late varieties of sweet corn are turning out very poorly. The continued dry weather has just about ruined all semblance of a crop. Sweet corn will be valuable property this year.

Corrections of last week's seed trade notes are in order, as follows: Referring to estimates of deliveries, read percentage of Pride of the Market 10 to 20 per cent. instead of 1 to 20 per cent., and for Sultana Excelsior read Sutton's Excelsior.

On Wednesday, September 18, the first anniversary of the opening of the H. B. Fiske Seed Co.'s establishment at 11 and 12 Faneuil Hall Square was celebrated in due form. This company has "made good," and in the short space of one year placed itself in a recognized position of permanence and prominence among the best seed houses of the Hub.

The receipts of Dutch bulbs during the past week have been very heavy, and now what certainly bids fair to be a great season for hardy bulbs being well underway it may be an opportune time to urge all consumers of this class of stock to at once place their orders, if they have not already done so, as from the experiences of the past two seasons the late buyers will not fare very well.

Wax beans, especially "Black Wax," also "Burpee's" and "Giant Stringless" green pods are reported as a very poor crop in the west. Our advices also tend to show that the dwarf varieties of wrinkled peas will fall below the averages given in the interview with a leading grower in our issue of 14th inst.

There is a report (we do not know how well-founded) that there is a failure of some small seed crops, "over the Pond," notably salsify.

Main shipments of Dutch bulb stock reached Philadelphia on the 16th inst. The season is late on account of the cold, damp weather on the other side. Hyacinths and narcissi opened up sweaty and had to be spread out. Tulips were in better shape. Outside of condition, quality and size are distinctly ahead of last year. This covers all subjects. May-flowering tulips are in larger supply, and judging from advance sales the overturn in these will be phenomenal this year. Named Darwins even are now on the list and go readily even at the high prices asked.

PUBLICATIONS RECEIVED.

American Varieties of Garden Beans.

The U. S. Department of Agriculture has never issued a more useful and practical bulletin than that which has just appeared under the above title by W. W. Tracy, Jr., Bulletin, No. 109.

When we consider that there are over four hundred assumed varieties of garden Beans now grown and cultivated in this country, the value of Mr. Tracy's work in classifying and reducing them to one hundred and eighty-five distinct sorts will be appreciated. Not only has this been done most systematically, but the merits and demerits of each kind plainly stated and the synonymous names of each distinct variety given. The publication of synonyms with the names of their introducers cannot fail to have a restraining influence on those given to the practice of re-naming varieties for purposes of deception or gain. We would remark that the sin of re-christening cannot always be charged to the Seedsmen; we can recall several instances where cultivators have concealed the names of vegetables and fruits in order to prevent their competitors in market or in exhibition obtaining stock of a sort, which they had hoped to monopolize. The descriptions are comprehensive, accurate and impartial. The author makes comparison of each sort with others similar to it, and wherever possible gives its history. The latter part of the book is devoted to half-tone illustrations of seeds, pods and leaves; altogether, the bulletin is a trustworthy handbook on garden Beans, which will be fully appreciated by both grower and Seedman. If anything could be added in a future edition, we would suggest that the Department when another trial is made, obtain through its correspondents a collection of the leading European kinds to be tested in comparison with our own. There are not a few varieties like the Flageolet Blanc, Haricot Riz, etc., that so far as we know have never been fairly tried in this country.

We most heartily commend the work of Bulletin No. 109 and we hope that work on this line will be continued by the Department.

Bulletin No. 1 of the Bureau of Horticultural Inspection, Department of Agriculture of the State of New York, has been received. It has been prepared by George G. Atwood and is devoted to information for orchardists and fruit growers relating to certain dangerously injurious insects and diseases, among which are the various scales, borers, root worms, aphids, gall, blights and rots. The book contains 48 full page plates illustrative of these subjects and the methods followed for their extermination. Every owner of trees should have this volume where he can put his hand on it at a moment's notice. Charles A. Whiting, Commissioner of Agriculture, Albany, N. Y., is the office address.

BEDDING PLANTS: THEIR USE AND ABUSE.

(A paper read before the Society of Iowa Florists, August 28, 1907, by J. T. L. Fulber, Des Moines.)

I shall only speak of summer bedding and carpet bedding, since they are the two most in use in this section of the country.

First, summer bedding, where we use cannas, geraniums, coleus, verbenas, ageratum, salvia, vincas, alyssum, petunias, heliotrope, grasses, alternantheras, artemisia, begonias, dahlias, etc. I should plant but one variety of geranium in a bed, bordering the plants with some of the low-growing plants, as artemisia or Madame Saleroi geranium. Again, never use but one color of cannas in a bed and these should be bordered with some tall growing plant, as grass or salvia. As for coleus, they may be planted two, three or four varieties in a bed, provided each variety is placed in its own division. Coleus should be planted where they may be exposed to the full sunshine as the colors are much enhanced thereby.

For dahlias, I prefer mixed colors in the same bed, for the dahlia and chrysanthemum flowers blend well even when the several shades are used together. Stake dahlia plants up, and do not permit many side shoots to grow as this is a detriment to bloom.

Artemisia is considered one of the best plants, used either as a border for geraniums or in carpet bedding. As to begonias, the only fibrous-rooted varieties largely used for bedding are those of the semperflorens type, of which Elfordii and Vernon are the best. Verbenas should be grown by themselves because they demand much room on account of their trailing habit. Propagation by cutting must be relied on if we would keep the choicest varieties true to type.

In the matter of carpet bedding, I am well aware there is a strong feeling against it by the landscape man; yet, in spite of all his objections, the public are lovers of it, provided of course, it is well done. That it may be seen to the best advantage, it should be placed in sunken areas, as we find it in Mitchell Park, Milwaukee; Washington Park, Chicago; and Fairmount Park, Philadelphia.

Plants best adapted for use in carpet bedding are coleus, alternanthera, stevia variegata, artemisia, echeveria, santolina and sedum. All these, except echeveria, will stand pinching which keeps them at a desired height. When carpet beds are well done, they are very attractive, and since they require technical skill and time they certainly deserve appreciation.

I now turn to the last, and to me the most important part of my paper—the abuse of bedding plants. This may be done, first by placing two or more colors of geraniums in a bed, as red and pink, bordering it with a coleus, which is allowed to grow taller than the geraniums. Or, it may be a bed of cannas of two, three or four varieties, bordered with geraniums and possibly ageratum for an outer border. Again, it may be a large, solid bed of salvia, without any border at all to break the monotony. Still again, it may be a bed of six or eight colors of coleus mixed like "Grandmother's crazy patch quilt."

These are some of the abuses we often see, to say nothing of that abuse which allows weeds and grass to rage rampant, smothering the flowers out.

Last, there is another abuse of bedding plants, the watering can. How often it is used with bad effect, since it merely sprinkles the ground, thus encouraging the roots to come to the surface where they are soon destroyed by the hot sun, whereas, if the ground is thoroughly watered and allowed to dry on top, the roots will go downward in search of moisture and not be susceptible to any hot, dry spell.

CATALOGUES RECEIVED.

F. W. Kelsey, New York—"Nature Menders." "He who plants a garden doth mend Nature."

Good & Reese Company, Springfield, O.—Fall trade list for nurserymen and dealers only. Especially strong on peonies and roses.

Bobbinck & Atkins, Rutherford, N. J.—Autumn catalogue of bulbs for forcing and fall planting, peonies, shrubs, bay trees, palms, araucarias, etc. An interesting book fully illustrated.

P. J. Berckmans Co., Inc., Augusta, Ga.—General catalogues of fruit and ornamental trees and shrubs, evergreens, roses, etc. There are several pages of useful information as to planting, care, insects, diseases, etc.

Conard & Jones Company, West Grove, Pa.—New Floral Guide, Autumn, 1907. A colored illustration of "White Souper" and "Pink Baby Rambler" roses adorns the front cover and a tulip group the back.

J. M. Thorburn & Co., New York.—1907 preliminary trade-list of American tree and shrub seeds. This list is an advance offer of some of the leading sorts, subject to the crop and for immediate acceptance. If interested, send for copy at once. Prices are quoted in shillings sterling.

Easton Nurseries, M. M. Dawson, Mgr., Jamaica Plain, Mass. Fall wholesale trade list of choice ornamental trees and shrubs. Contains the cream of all the hardy garden subjects, also a list or herbaceous material in great variety. The same parties are sending out a pretty little pamphlet on native rhododendrons and mountain laurel, beautifully illustrated.

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9-11 "	1.00	20.00	190.00
11-13 "	.50	45.00	

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BABY RAMBLERS FOR CHRISTMAS.

Editor HORTICULTURE Please ask some of your experienced readers the best way to treat Baby Ramblers, so as to have them in flower for Christmas.

BARYMORE.

It takes about nine (9) weeks to bring the Baby Rambler rose into bloom from a semi-dormant state; it is now Sept. 12th—about fourteen weeks until Christmas; this allows about a month from date to dry the plants off a little, in order to get the wood in a hard and ripe condition. In drying the plants off care should be taken not to overdo it; sprinkle them occasionally, just enough to keep the bark from shrivelling. In starting the plants into growth the night temperature for the first three weeks should be kept as near 50 degrees to 55 degrees as possible, after which time the temperature might be increased to 60 degrees to 65 degrees at night; the day temperature may go higher, without injury, provided plenty of air be given.

ROET. CRAIG.

Philadelphia.

TO BLOOM BOUGAINVILLEAS IN SUMMER.

I have a lot of large Bougainvilleas which I desire to use for outdoor decorations in summer, but invariably, with exception of a few stray flowers, they fail to bloom. My way of treating them has been to plant them out in the spring and they make a luxuriant growth. In the fall I cut them back and put them in a house kept at about 50 degrees. They start to grow towards spring and would bloom in the house, but as soon as I transfer them to the open the result is very few flowers. Should be pleased to hear from some one that had experience with said plants for early summer bloom.

R.

CHRYSANthemum MAXIMUM.

Of the several forms of this useful border flower the latest was recently shown at the National Dahlia Show. It is certainly a grand novelty and far surpasses King Edward VII and Top Sawyer. Messrs. J. F. Groves & Son of Cedar Nursery, who exhibited it under the name of Mrs. Charles Lothian Bell, had a long table with vases full of cut blooms of great size. This variety has pure white, broad, massive petals of great length, which are borne on long, stiff stems. It is a profuse bloomer, of compact habit, and lasts from May till October. As a pot plant for decorative purposes it promises to be quite an acquisition.

C. H. P.

London, Eng.

AN EXTRAORDINARY PLUM CROP.

Plums were almost given away at Covent Garden on Saturday, when, owing to the extraordinary supply on hand, the fruit could be bought at 7 1-2d. a bushel. Victoria plums were sold at 1d. for 5 lb., and were still cheaper at the end of the day. The best Green Gages sold at 1s. 3d. per half-sieve, an almost unprecedented price. So great is the glut that thousands of tons of fruit still on the trees will probably be allowed to drop on the ground and be given to the pigs.—Journal of Horticulture, London.

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B. Compté. (Tall). A glowing reddish or French purple; one of the finest dark-colored varieties	6 00	50 00
Chateaubriand. (Medium). Pure white with crimson-carmine eye, shading to bright violet purple	6 00	50 00
Consul H. Trost. (Tall). Pure red with bright French purple eye	6 00	50 00
Coquelicot. (Dwarf). A fine pure scarlet with crimson-red eye	6 00	50 00
Etna (Medium). Crimson-red, suffused with fiery red; cherry red eye	6 00	50 00
Edmond Kostand. (Medium). Reddish violet, shading brighter towards the centre of petals, with an exceptionally large, white, star-shaped centre	10 00	90 00
F. G. Von Lassburg. (Tall). The finest white in cultivation, the individual flowers being fully double the size of any other variety, pure in color; a strong, clean, vigorous grower	50 00	125 00
General Giovannelli. (Dwarf). Bright Tyrian rose, with light shadings at the base of each petal; a pure red eye, very effective.	6 00	50 00
Hermine. (DWARF). The dwarfiest variety in our collection, never exceeding ten inches in height, pure white flowers of good size, early; unequalled for bordering; a perfect little gem	10 00	90 00
Independence. (Tall). An excellent large-flowering early white	6 00	50 00
Inspector Elpel. (Tall). Tender rose, with bright crimson-carmine eye	6 00	50 00
Lamartine. (Tall). Very bright magenta, with a large white centre; very effective	6 00	50 00
Lord Raleigh. (Dwarf). Deep reddish violet, distinct	6 00	50 00
Le Mahdi. (Tall). Deep reddish violet, with darker eye	6 00	50 00
Mrs. Jenkins. (Tall). An early-flowering pure white, forming an immense panicle; one of the best	10 00	90 00
Michael Cervantes. (Tall). Pure white, with pure red eye; larger flower	5 00	50 00
Stella's Choice. (Tall). A much-branching late white variety	6 00	50 00
Selma. (Tall). Large flower, pale rose mauve, with distinct claret-red eye	10 00	90 00



Frau Dora Umgeller. (Tall). Very rich, deep rose; a strong tree-flowering late variety.	
Gustav Nadaud. (Tall). Ground color white, delicately suffused with reddish violet; Tyrian rose eye.	
Graff Von Ungerer. (Tall). Large flower; white suffused throughout with rosy lilac and dark crimson centre.	
H. O. Wigers. (Tall). Pure white, with crimson-carmine eye.	
Henry Murger. (Tall). White, with crimson-carmine centre.	
Inspector Peiker. (Tall). Purplish mauve, washed with white.	
Jeanne D'Arc. (Tall). A late-flowering pure white.	
La Vague. (Medium). Pure mauve with aniline-red eye; one of the best Phlox in our collection.	
Mozart. (Tall). Ground color white, suffused with salmon; aniline-red eye.	
Mme. Mari Kuppenheim. (Dwarf). A fine, late, pure white.	
Martinique. (Tall). Tender rose with brighter eye.	
Mme. Pape Carpentier. (Dwarf). Very early pure white; tube of corolla tinted with pink.	
Otto Thalacker. (Dwarf). Tyrian rose with deep red eye and light halo.	
Obergartner Wittig. (Medium). Bright magenta, with crimson-carmine eye; large flower and truss; the best of its type.	
Pantheon. (Tall). Bright carmine rose.	
Pecheur D'Islande. (Tall). Crimson red, suffused with cochineal-red and carmine-red eye.	
Pacha. (Dwarf). Deep rose pink suffused with solferino-red and carmine-purple eye.	
Professor Schlieman. (Tall). Pure mauve with crimson carmine eye; an effective late flowering variety.	
Papillon. (Medium). Bright violet purple, peculiarly marked with white.	
Philibert Audenbrand. (Tall). Pure white with carmine centre; large flower.	
R. F. Struthers. (Tall). Rosy carmine with claret-red eye; one of the best Phlox in cultivation.	
Sunshine. (Dwarf). Large flower, aniline-red with crimson-red eye and light halo.	
Thebaide. (Dwarf). Carmine lake with brighter shadings and aniline-red eye.	
Von Goethe. (Tall). Tyrian rose, suffused with carmine lake and carmine-red eye.	
Zouave. (Medium). Bright rosy magenta with red centre.	

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Aquillon. (Tall). Bright Tyrian rose with crimson-red eye.	
Andreas Hoffer. (Medium). An early and continuous flowering pure white.	
Bouquet Fleuri. (Dwarf). Pure white with crimson-carmine eye; free-flowering; each branch a perfect bouquet.	
Bridesmaid. (Tall). White, with large crimson-carmine centre.	
Beranger. (Dwarf). Ground color white, delicately suffused with rosy pink and distinct amaranth-red eye.	
Bacchante. (Tall). Tyrian rose with crimson-carmine eye.	
Blanc Nain. (Dwarf). Very dwarf pure white.	
Colibri. (Tall). White, with crimson-carmine centre; very late.	
Champs Elysee. (Medium). A very bright rosy magenta of an effective shade.	
Caran D'Ache. (Dwarf). Geranium-red with old rose shadings and white eye; very effective.	
Cyclon. (Very Dwarf). White, suffused with lilac; aniline-red eye in the form of a star.	
Eclairneur. (Tall). Brilliant rosy magenta with large lighter halo; an excellent variety.	
Eugene Danzenville. (Tall). Lilac, shading white towards the edges; large white centre.	
Esclarmonde. (Tall). Lilac marked with white; aniline-red eye.	

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA, PA.

HARDY PERENNIAL PLANTS FOR BEDDING AND CUT-FLOWERS.

A paper read before the Society of Iowa Florists by G. A. Heyne, Dubuque.

This class of plants is coming in for its share of appreciation by both the wholesale and retail florists, and certainly with the general public. Would advise that every retail florist plant at least a dozen sorts of each for cutting and bedding where your customers can see them to make their selections for planting, and also to help sell them as cut-flowers. Of course the stock proper may or should be planted where there is plenty of room for them to properly develop and be kept free of weeds. I do not know of any class of plants outdoors that will, with the small amount of care, give as good returns for the ground occupied.

The list of sorts suited for cut-flowers is about one-third of all the commercially grown varieties. For bedding purposes there are at least half the list available; I mean those that will transplant easily. In bedding, the possibilities of arrangement for best effects are beyond mention. Regarding the soil requirements of these plants, three-fourths will grow in good garden soil. While many recommend the planting of a mixed lot for continuous effect, it is certain that massing of some few kinds will give a more showy effect and also allow for some nice color schemes that could not be had with mixed-up plantings. It also helps keep the stock more pure for sale.

For a few minutes let us go over a small garden, and note some of the most showy ones, all easily grown, see the rose-colored buds of the moss-pink on the terraces; this phlox is very fine for covering graves. Blue bells, *Mertensia virginica* with its changing colors of blue and pink bells, making a fine border for hardy candy-tufts with their knots of white buds ready to open when May has a few warm days. At the foot of yonder rockery are the Gold-tufts, *Alyssum saxatile*, a patch of about twenty plants laid out like a large blanket of gold; a ten-cent packet of seed will give several lots like this bright spot. The tufted pansies or violas make a show to repay for the care of covering they received last fall. In May things have more of a height; though *Iris pumila*, on the knoll, is about the showiest now, the German *Iris* with its broad clumps is showing a mass of buds that are useful for cutting, especially the lighter sorts.

Paeonies of the mutabilis, or officinalis type are out, both pink and crimson. This is a flower coming at a time (Decoration Day) when it is twice welcome, when the season is late.

The Chinese paeonies come next in season. There is a clump of fragrance with its large pink flowers, blooming as regular as clock work. Of this class every florist that sells his own grown products should plant heavily. The selection of sorts deserves being treated as a separate subject; now is the time to plant.

A MODERN FLOWER STORE.



NEW FLOWER STORE OF S. HOFFMAN, BOSTON, EXTERIOR

We take pleasure in showing herewith views in the new flower store of Sidney Hoffman, on Commonwealth avenue, Boston's most beautiful residential thoroughfare, at the junction of Massachusetts avenue. A shop of moderate size has been conducted there by Mr. Hoffman since such a

given up by Morton Bros., and with such success that he has now taken the entire front of the building, on the ground floor and basement, and the new establishment was opened to the public last Saturday. It is one of the most attractive and convenient establishments in the country and a credit to Boston.



NEW FLOWER STORE OF S. HOFFMAN, BOSTON, INTERIOR

August is the time to plant Oriental poppies; try a clump of a dozen plants. To make a fine yellow scheme, plant *Heliopsis Pitcheriana* in background, *Gaillardia grandiflora* in middle, and *Coreopsis lanceolata* around edge; the last are all fine for cutting.

If more height is wanted add several clumps of Golden Glow *Rudbeckia*; they certainly grow anywhere and will give flowers by the armful. *Achillea* the Pearl, a most useful plant for cutting, makes better plants if divided every two years. *Gypsophila paniculata* is indispensable as a cut-flower. The hardy phloxes of the newer sorts make a fine display, and should be planted liberally; best time is spring, as the shoots appear above ground; give them

plenty of room between rows. Spring-propagated stock blooms later. The hollyhocks are showing more resistance lately to that dreaded disease. A hardy border is hardly complete without the hollyhock in it; the single sorts hold up better than the doubles.

Foxgloves must not be forgo ten. They are very stately in the hardy border. It is advisable to winter some stock inside, or at least give the protection of a cold frame. Would also recommend this treatment for the following: *Bellis perennis*, *Primula vulgaris*, *Campanula*, *Scabiosa*, *Tritoma*, *Snaydragon*, *Forget-me-not* and *Hollyhock*. This applies to young stock in particular.

Regarding Elies my experience has

thoroughly convinced me of the unusual chances of blooming some of the sorts offered every year. All told, about a half-dozen will repay any care. Would class about this way: *Lilium candidum* and *speciosum album* for white, *roseum* and *rubrum* for colored and *auratum* for spotted; of course including *cligrinum*, single and double, as ironclads; the last two cannot be beaten for hardiness. Of some sorts like *pardalinum*, *umbellatum* or *Parryi*, the chances are one in two or worse; the commercial florist will get no returns worth mentioning out of the other sorts offered.

The following is a list of hardy perennials most useful for cut-flowers. There are a few other sorts that might be mentioned, but these listed will give best results:

Achillea the Pearl, *Asclepias*, *Aster* hardy, late; *Bellis*, *Chrysanthemum*, both summer and late sorts; *Clematis paniculata* and *recta*; *Convallaria*, *Aquilegia*, *Gaillardia*, *Coreopsis*, *Gypsophila*, *Helianthus*, *Heliopsis*, *Iberis*, *Iris* German and *Kaempferi*; *Lilium*, *Lychnis*, *Paeony*, *Phlox* hardy; *Pyrethrum*, *Rudbeckia*, *Spirea*, *Solidago*, *Wall-flower*, *Valerian*, etc.

With those above, recommend the following for massing and bedding, also for specimen clumps:

Alyssum, *Anthericum* in variety, *Aquilegia*, *Anemone*, *Artemesia* in variety, *Astilbe*, *Bocconia* in variety, *Boltonia*, *Caryopteris*, *Campanula*, *Centaurea*, *Clematis*, *Delphinium*, *Dianthus*, *Dictamnus* in variety, *Dielytra*, *Digitalis*, *Funkia*, *Hemerocallis* in variety, *Hepatica*, *Hollyhock* in variety, *Hypericum*, *Iris*, *Lobelia*, *Linum*, *Pentstemon*, *Plumbago*, *Primula*, *Salvia*, *Santolina*, *Saxifraga*, *Sedum*, *Spiraea*, *Tritoma*, *Vinca*, *Viola* and *Yucca*.

INDIANAPOLIS ACTIVITIES.

E. T. Barnes, a dahlia specialist, will give a dahlia show at Bertermann Bros., retail conservatory, Indianapolis, Ind., on Sept. 26. Some 500 varieties of dahlias will be shown. The local florists anticipate the organization of a dahlia society of the middle west in the near future. A club composed of florists and employees was organized at A. Wiegand & Sons Sept. 11th. The purpose of the club is social and athletic only. Officers were elected and so far forty-five names have enrolled. The club meets the 2d Wednesday each month. G. B. W.

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	CHICAGO Sept. 11	TWIN CITIES August 31	PHILA. Sept. 16	BOSTON Sept. 19
ROSES				
Am. Beauty, Special.....	25.00 to 30.00	20.00 to 30.00	20.00 to 25.00	15.00 to 25.00
" Fan. & Ex.....	15.00 to 20.00	12.50 to 17.00	15.00 to 18.00	6.00 to 10.00
" No. 1.....	10.00 to 12.00	10.00 to	8.00 to 12.00	4.00 to 6.00
" Lower grades.....	4.00 to 8.00	3.00 to 5.00	3.00 to 6.00	.50 to 3.00
Bride, 'Maid, Golden Gate, F. & S.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	3.00 to 4.00
" " " Extra.....	..... to	2.00 to 4.00	..... to	2.00 to 3.00
" " " No. 1 & lw. gr.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	.50 to 1.00
Liberty, Richmond, Fan. & Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	3.00 to 4.00
" Lower grades.....	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	.50 to 2.00
Chatenay, Morgan, Fan. & Sp.....	..... to	4.00 to 6.00	..... to	2.00 to 3.00
" Lower grades.....	..... to	3.00 to 4.00	..... to .....	.50 to 1.00
Kaiserin, Carnot, Fan. & Sp.....	5.00 to 6.00	4.00 to 6.00	6.00 to 8.00	3.00 to 5.00
" Lower grades.....	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00	1.00 to 2.00
Killarney, Wellesley, Fan. & Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	2.00 to 6.00
" Lower grades.....	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	.50 to 2.00
CARNATIONS				
Fancy and Novelties.....	2.00 to	1.50 to 2.00	2.00 to 2.50	..... to
Ordinary.....	.75 to 1.00	.75 to 1.00	1.00 to 1.50	.75 to 1.50
MISCELLANEOUS				
Sweet Peas.....	.25 to .50	.25 to .50	.50 to .....	..... to
Cattleyas.....	50.00 to 75.00	35.00 to 60.00	..... to 75.00	50.00 to 75.00
Lilies.....	10.00 to 12.00	10.00 to 12.00	12.00 to 15.00	6.00 to 8.00
Lily of the Valley.....	3.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Asters.....	1.00 to 3.00	1.00 to 2.00	.50 to 2.00	.50 to 1.50
Gladioli.....	2.00 to 4.00	2.00 to 6.00	2.00 to 3.00	.50 to 2.00
Adiantum.....	1.00 to 1.50	.75 to 1.00	1.00 to 1.50	.50 to 1.00
Smilax.....	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00	8.00 to 12.00
Asparagus Plumosus, strings.....	35.00 to 50.00	35.00 to 50.00	35.00 to 50.00 to 50.00
" " & Spreng. (100 bchs.)	35.00 to 50.00	35.00 to 50.00	35.00 to 50.00	20.00 to 50.00

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FLOWER MARKET REPORTS

BOSTON

Very discouraging conditions prevail in the wholesale market this week.

Short-stemmed roses, asters, gladioli, etc., are coming in to the wholesalers in unwieldy quantities and are unloaded with great difficulty, the shore trade being entirely at an end and no other outlet offering at present. Even lily of the valley, which had been selling well, now drags badly. Carnations are coming on all sides, but with short stems, and as asters are an avalanche still, the carnations create but little interest. Not until frost or some other factor puts a quietus on outdoor material can the greenhouse crop look for much improvement.

The time has come again when business is brightening or "picking up."

BUFFALO

Weddings, fall openings, home comers and a sprinkling of floral work kept the retailer busy the past week. Flowers of all kinds have been plentiful enough, but at times certain lines were a little short in supply. Asters of the best quality find ready buyers, but the short stuff remains with the wholesaler to carry along until life vanishes. The same may be said of gladioli, only the mixed colors with long stems don't move; the solid colored varieties in light shades are most in demand. Some excellent yellow (canary) are seen. Good carnations are scarce. Beauties, Richmond, Carnot, Kaiserins, Detroit are fine. Brides and Bridesmaids are improving daily but short in stems. Lily of the valley has been very active and good quality to be had. Dahlias have made their appearance but no demand whatever. Violets, southern smilax and all greens sold well.

CINCINNATI

Business is improving as fall approaches but thus far the demand has not settled down to any degree of regularity. The market is badly over-stocked with flowers of an inferior grade, while first class stock is bringing a good price and sells on sight. In roses Beauties are in the lead; teas are small and short-stemmed. Lilies are fine and the supply is not equal to the demand. Lily of the valley is good and ought to sell better than it does. A few violets have made their appearance but as they are not up to the standard most of them are consigned to the barrel. The public is tired of asters and gladioli and we now await the coming of chrysanthemums and cool weather.

INDIANAPOLIS

The market is beginning to tone up for the busy season. Trade is better than a year ago and more customers are calling for a better grade of stock. An abundance of good outdoor stock is to be had but there is a scarcity of good roses. All varieties of lilies, asters and gladioli have been the best ever seen here, and prices have held up well. The rose and carnation growers report their plants as in excellent shape and some exceptionally good stock is looked for.

NEW YORK

Heavy supplies of all kinds of flowers are reaching this market, some shipments being of excellent

quality—others quite the reverse—but all obliged to face unpromising conditions, for the market is totally unable to digest the enormous receipts. Prices fluctuate on the high grade goods from day to day according to the exigency, but on the other material, both outdoor and indoor, the basis of valuation is "get what you can."

PHILADELPHIA

Market features less this week, with a slight improvement in spots and a tendency toward better conditions both as to qualities and demand, as cooler weather approaches. Meantime there is much good stuff coming in. The distributors are working harder at present than at any time during the year, and have less to show for it than at any previous season. Beauties are gradually improving in quality and there are some very fair Killarneys and Kaiserins. Carnations sold well latter part of week, but the demand is spasmodic on account of the big supply of choice asters which in most cases are preferred. Gladioli are nearing the end and demand improved. Easter lilies are in fair supply and find ready sale. Lily of the valley is of good quality but demand not brisk. Smilax is selling better. The asparagus men ought to hold off a little. This stock will go better later. New green galax is in. Bronze scarce; no new before December 1st. Tritonias have the call among outdoor subjects. Dahlias improve daily both in quality, quantity and demand.

WASHINGTON

Business for the past week has been better than for some weeks. Everything has moved better in the cut flower line. There is a glut of asters, especially those of second grade quality. Pond lilies are things of the past. The cool weather is improving the quality of roses and some fine Cochetts and Kaiserins are coming in. Dahlias are also coming in rather plentifully but are not of sufficiently good quality to command first-class prices.

OBITUARY.

John Waggoner, florist, of Portland, Ind., died suddenly on September 4, aged 69 years. A widow, one daughter and four sons survive.

Oswald Amies, florist of South St. Louis, Mo., was seized with a dizzy spell while waiting at the ferry landing at East Carondelet and falling into the water was drowned. The body was recovered on the following day.

Flint S. Kennicott, president of the Kennicott Bros. Company, and pioneer of the wholesale cut flower commission business in Chicago, died suddenly of heart failure on Sept. 9. He was 59 years of age and is survived by a widow and two daughters and one son. The funeral on September 11 was attended by the Chicago Florists' Club in a body, and the wholesale houses were all closed for the time being.

PHILADELPHIA NOTES.

Edward Rieger, fresh from his European travels, was a welcome visitor among the wholesalers on Monday.

A. E. Wohler, late of Bala, has moved to Merion, the new location being a part of the old Simpson property. He will devote himself exclusively to outdoor work, his brother Emil having taken up the greenhouse end and located at Swarthmore.

Liddon Pennock, of Pennock Bros., has been making expensive improvements on the old homestead at Lansdowne this summer, and will reside there when the operation is completed.

Latest reports from Samuel S. Pennock and family locate them in Wales, and all well.

A novel feature of the Michell bulb display this fall is a collection of various sized Dutch clogs in which hyacinths, tulips, daffodils, etc., are shown.

J. Otto Thilow and J. D. Eisele of Drees's sailed on the Frau Prinzessen Victoria on the 17th inst. for a month's pleasure trip through England and Germany. This is Mr. Thilow's maiden trip across the Atlantic. G. A. Strohelein arrived home from a business trip through Europe on the 16th.

PERSONAL.

Visitors in Boston: Mr. and Mrs. John H. Taylor, Bayside, N. Y.

William Paul, florist, of Springfield, Mass., has just returned from an extended European tour.

J. E. West, gardener for G. L. Cains, of Montreal, has returned from a six weeks' holiday in England.

John Berry, superintendent of Monument Valley Park, Colorado Springs, Colo., was general manager of the flower department of the State Fair at Pueblo last week.

Jules Vacherot, vice-president of the National Horticultural Society of France, and chief gardener of Paris, has arrived in New York, and will remain in this country until the end of October.

Mr. and Mrs. J. B. Heiss, of Dayton, O., have returned from a very enjoyable trip through Europe, on the S. S. Kronprinzessin Cecilie. Mrs. Heiss is quite enthusiastic about the florists' window decorations all over the Continent, especially in Germany.

William Allen, for a long time assistant superintendent of Mt. Auburn Cemetery, Cambridge, Mass., has been appointed to the position of superintendent of Homewood Cemetery, Pittsburgh, Pa., to succeed the late Mr. Woods. Mr. Allen is a Welshman, who learned his profession of gardener before coming to this country. His first employment here was under James H. Bowditch of Boston, landscape engineer.

Pennsylvania, Sept. 14, 1907.

Dear Sir,—Allow me to congratulate you upon the manner in which you handled copy in connection with the recent convention in Philadelphia, and I would also like to acknowledge particular pleasure in the notes you publish from the other side of the water.—E. P.

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Roses									
Am. Beauty, fan and sp.	15.00	to 25.00	15.00	to 25.00					
" extra	10.00	to 12.00	1.00	to 12.00					
" No. 1	6.00	to 10.00	6.00	to 10.00					
" Lower grades	1.00	to 3.00	1.00	to 3.00					
Bride, 'Maid, Golden Gate, fan & sp	3.00	to 5.00	3.00	to 5.00					
" " lwr.grds. ....	.50	to 2.00	.50	to 2.00					
Liberty, Richmond, fancy & special	3.00	to 5.00	3.00	to 5.00					
" " lower grades ..	.50	to 1.00	.50	to 1.00					
Kaiserin, Carnot, fancy and spec.	3.00	to 6.00	3.00	to 6.00					
" " lower grades ..	.50	to 2.00	.50	to 2.00					
Killarney, Wellesley, fan. and spec.	3.00	to 6.00	3.00	to 6.00					
" " lower grades ..	.50	to 2.00	.50	to 2.00					
Carnations									
Sweet Peas (100 bunches) .....	.75	to 2.00	.75	to 2.00					
Cattleyas	1.00	to 3.00	1.00	to 3.00					
Lilies	50.00	to 75.00	50.00	to 75.00					
Lily of the Valley	6.00	to 8.00	6.00	to 8.00					
Asters	1.00	to 3.00	1.00	to 3.00					
Gladioli .....	.50	to 1.00	.50	to 1.00					
Adiantum .....	.50	to 2.00	.50	to 2.00					
" Crownatum .....	.50	to .75	.50	to .75					
Smilax	1.00	to 1.50	1.00	to 1.50					
Asparagus Plumosus, strings...	8.00	to 12.00	8.00	to 12.00					
" " & Spreng. (100 bchs.)	20.00	to 30.00	20.00	to 30.00					
	10.00	to 25.00	10.00	to 25.00					

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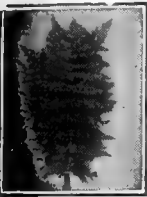
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Hammond's Old English Liquid Putty, \$1.25 per Gal. Hammond's Greenhouse White Paint, \$1.50 per Gal.
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Give us a trial order on ferns; we are sure we can please you. Headquarters for Florist Supplies and wire work.
Write for price list on cut flowers and supplies.

MICHIGAN CUT FLOWER EXCHANGE, INC., Wholesale Commission Florists, 38-40 Broadway, Detroit, Mich.
TELEPHONE CONNECTIONS.

Headquarters in Western New York
FOR
ROSES, CARNATIONS
And all kinds of Seasonable Flowers
Wm. F. Kasting Co.
Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.
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BUFFALO, N. Y.
Give us a trial. We can please you.

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Open Now for Consignments of Cut Flowers.
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Best Flowers
in the **Boston Market**
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BOSTON, MASS.

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Already in the Front Rank as
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WHOLESALE DEALERS
Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

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			PITTSBURG Sept. 18
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Am. Beauty, Fan, and Sp.....	20.00 to 25.00 to 25.00	20.00 to 25.00
" Extra.....	15.00 to 20.00	12.00 to 20.00	15.00 to 20.00
" No. 1.....	8.00 to 10.00	5.00 to 8.00	8.00 to 10.00
" Lower grades.....	4.00 to 6.00	3.00 to 5.00	3.00 to 5.00
Bride, 'Maid, Golden Gate, F. & S.....	..... to 6.00	5.00 to 8.00	6.00 to 8.00
" " Extra.....	..... to 6.00	..... to 6.00	4.00 to 6.00
" " No. 1 & lw. gr.....	2.00 to 3.00	3.00 to 5.00	2.00 to 4.00
Liberty, Richmond, Fan, & Sp.....	5.00 to 6.00	5.00 to 8.00	6.00 to 8.00
" Lower grades.....	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Chatenay, Morgan, Fan, & Sp.....	..... to 6.00	..... to 6.00	8.00 to 10.00
" Lower grades.....	..... to 6.00	..... to 6.00	6.00 to 8.00
Kaiserin, Carnot, Fan, & Sp.....	5.00 to 6.00	..... to 6.00	7.00 to 8.00
" Lower grades.....	3.00 to 4.00	..... to 6.00	6.00 to 8.00
Killarney, Wellesley, Fan, & Sp.....	4.00 to 6.00	5.00 to 8.00	7.00 to 8.00
" Lower grades.....	3.00 to 4.00	3.00 to 5.00	4.00 to 6.00
CARNATIONS			
Fancy and Novelties.....	1.00 to 2.00	..... to 1.50	1.50 to 2.00
Ordinary.....	..... to 1.00	1.00 to 1.50	1.00 to 1.25
MISCELLANEOUS			
Sweet Peas.....	..... to 1.00	..... to 1.00	..... to 1.00
Cattleyas.....	50.00 to 75.00	..... to 50.00	50.00 to 75.00
Lilies.....	10.00 to 12.50	15.00 to 15.00	15.00 to 18.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Asters.....	.50 to 2.00	.50 to 1.50	.25 to 2.00
Gladioli.....	1.00 to 3.00	3.00 to 5.00	2.00 to 3.00
Adiantum.....	..... to 1.00	1.00 to 2.00	.50 to 1.50
Smilax.....	12.00 to 15.00	15.00 to 15.00	15.00 to 15.00
Asparagus Plumosus, strings.....	40.00 to 50.00	40.00 to 75.00	40.00 to 50.00
" " & Spreng. (too bchs.)..... to 25.00	20.00 to 30.00	25.00 to 35.00

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LIGHT WOOD CUT FLOWER BOXES
Sizes in Stock per 100

3 x 4 x 24	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
4 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
6 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.
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BELLEVILLE, ALA.

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Cut spikes in any quantity from
Selected White and Light Shades;
Selected Mixed Colors and Named
Varieties of Exceptional Beauty.
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Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dysart, 28 State St., Boston.
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Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Adiantum Hybridum, 2-12 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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Fall delivery. Our stock will please you.
J. W. Dunford, Clayton, Mo.

ASPARAGUS

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosus, 3 1/2 in. heavy, \$7 per 100. Sprengerii, 3 1/2 in. heavy, \$6 per 100. Similax, 2 1/2 in., \$2 per 100. Scranton Florist Supply Co., Scranton, Pa.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

Asparagus plumosus, 2-in., \$3.50 per 100; \$30 per 1,000; 3-in., 5c.; 3 1/2 in., 10c.; 4-in., 12c.; 5-in., 20c.; 6-in., 30c. Comorensis, 2-in., 2c.; 2 1/2 in., 3c.; 3 1/2 in., 6c. Sprengerii, 2 1/2 in., 3c.; 3 1/2 in., 5c.; 4-in., 10c. J. W. Dunford, Clayton, Mo.

Plumosa Seedlings, 90c. hundred, prepaid; 2 1/2 in. ready for shift, \$3 per hundred. Sprengerii well established, out of thumb pots, prepaid, \$1.60 per hundred. Will exchange seedlings for Primulas, Cinerarias, Hydrangeas, or Lorraine Begonias. Budd Park Greenhouses, 40 Hardesty, Kansas City, Mo.

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Sales of Decorative plants, Carnations, etc., every Tuesday and Friday. If you cannot attend send bids and shipping instructions. Catalogues on application. N. F. McCarthy & Co., 84 Hawley St., Boston.

Wm. Elliott & Sons, 201 Fulton St., New York.

Plant Auction Sales.

AZALEAS

John Scheepers & Co., 4 and 6 Old Slip, New York.

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The best commercial varieties. J. W. Dunford, Clayton, Mo.

BAMBOO CANES

Stumpp & Walter Co., 50 Barclay St., New York.

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BAY TREES.

Bay Trees. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

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BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

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Joseph Breck & Sons, 47-54 N. Market St., Boston.

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Roman Hyacinths: Bermuda Easter Lilies. For page see List of Advertisers.

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Rickards Bros., 37 East 19th St., New York. White Roman Hyacinths.

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H. F. Mitchell Co., Philadelphia. Lilium Harrisii.

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Johnson Seed Co., 217 Market St., Phila. Paper White Narcissus.

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John Scheepers & Co., 4 and 6 Old Slip, New York.

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Formosa Longiflorum.

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J. A. McDowell, Ap. 167, City of Mexico. Mexican Summer Bulbs.

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Aug. Rolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs.

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BULBS AND TUBERS—Continued

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F. Dorner & Sons Co., Lafayette, Ind. For page see List of Advertisers.

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Field Grown Carnations.

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Carnation Flowers Wanted.

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Scheiden & Schoos, 60 Wabash Ave., Chicago, Ill.

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R. Engelman & Son, Pittsfield, Mass.

Field Grown Carnations and Violets.

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Farnum P. Caird, 271 River St., Troy, N. Y.

Field Grown Carnations.

Carnations, extra fine field grown plants, at \$5 per 100. Lawson, White Lawson, Red Lawson, Lady Bountiful, H. N. Hoffman, Elmira, N. Y.

Strong Field Plants. 300 Harlowarden, 150 Fair Maid, 300 Daybreak Lawson, 50 White Lawson, \$5 per hundred. R. D. Kimball, Waban, Mass.

Carnation Plants. Field grown. Perfectly healthy—Queen, Enchantress, Maid, Queen Louise, \$5 per hundred. A. S. Chase, Cumberland Center, Maine.

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Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2 1/2 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

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CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 1741 N. 8th St., Philadelphia.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in., \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

EVERGREENS

Bay State Nurseries, N. Abington, Mass.
Small Evergreens.
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FERNS

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W. P. Craig, 1305 Filbert St., Philadelphia.
"Amerophili."
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Ferns, 4-in. Whitman, 30c. Barrowsil, 15c. C. E. Ervin, Latonia, Ky.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 223-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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Finest green and bronze Galax in any quantity at lowest figures. N. F. McCarthy, 84 Hawley St., Boston.

GERANIUMS

R. Vincent, Jr. & Sons, White Marsh, Md.
Geranium Dagata.
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Geraniums, Strong stock. 3-in., 4c., 3 1/2-in., 6c. Rooted cuttings, \$15 per 1000. J. W. Dunford, Clayton, Mo.

Geranium plants from field of the best standard varieties. Will average 10 cuttings to the plant. \$6 per 100. Cuttings 50c. per 100. Rooted cuttings \$1.25 per 100. William Doel, Pascoag, R. I.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.
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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

Augusta gladioli, and white and light. Rowehl & Granz, Hicksville, L. I., N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury St., Boston.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

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GREENHOUSE BUILDING MATERIAL.

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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

In writing to Advertisers kindly mention Horticulture

HARDY FERNS AND SUPPLIES

A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl., Boston, Mass.
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Michigan Ctt Flower Exchange,
88 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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HARDY HERBACEOUS PLANTS

Hardy Herbaceous Plants. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

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Eastern Nurseries, M. M. Dawson, Mgr.,
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Choice Hardy Perennials.
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INSECTICIDES.

Nicoticide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil Insecticide.
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IRISES

We have 100,000 Japan irises, the finest collection in this country. Rowehl & Granz, Hicksville, L. I., N. Y.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York
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MOSCHOSMAS

Moschosma riparium, a valuable new
Christmas flowering plant. Write for de-
scriptive circular and price list. Chas. H.
Totty, Madison, N. J.

NICO-FUME

Kentucky Tobacco Product Co., Louis-
ville, Ky.

NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

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Nursery Stock. N. F. McCarthy & Co.,
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Choice Evergreens, Blue Spruce, etc.
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Kentia, Phoenix, etc., all sizes. Write for
new price list. Julius Roehrs Co., Ruther-
ford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange,
88 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Perry Green, 63 Howard Ave., Quincy,
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Choice Pansy Plants, Transplanted,
ready September 1; 50c. per 100, \$4.00 per
1000. S. J. McMichael, 142 Larkins St.,
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PATENTS

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Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and
Wrought Pipe, Valves, Elbows, Pipe Hooks,
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

PIPE COUPLINGS AND BOILER TUBES

Constantly on hand merchantable sound
second hand pipe with new threads and
couplings; also new galvanized pipe. 5000
feet 3-in. sound second hand boiler tubes
with 2 1/2-in. standard pipe threads and
couplings. 1000 feet 2 1/2-in. boiler tubes
with 2-in. standard pipe threads and cou-
plings very suitable for greenhouse heating.
10,000 feet 4-in. sound boiler tubes cleaned
with square cut ends in any length with
corking hubs if required. Pfaff & Ken-
dall, Foundry Street, Newark, N. J.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz.
The Geo. Wittbold Co., 1657 Buckingham
Place, Chicago.

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PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PRIVET

Cottage Gardens Co., Queens, N. Y.
California Privet.

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Thomas Roland, Nahant, Mass.
Lady Gay Roses.

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Low-budded roses, No. 1, \$95.00; No.
11-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.

500 Maids, 100 Ivory, 75 Gates, very
strong, in 3½ and 4-in. Just right for
benching, \$5 per 100, for the lot. Cash. J.
W. Dunford, Clayton, Mo.

SEEDS

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J. A. McDowell, Ap. 167, City of Mexico.
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Ant. C. Zvolanek, Bound Brook, N. J.
Mignonette Seed.

I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIREA

Spirea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.

SWEET PEAS

Ant. C. Zvolanek, Bound Brook, N. J.

VEGETABLE PLANTS

Grand Rapids lettuce plants, A1 stock,
now ready to ship, 20c per 100, by mail;
\$1.00 per 1000, by express. S. J. McMich-
ael, 142 Larkins St., Findlay, O.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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VENTILATING MACHINERY, New
Model encased, self-oiling gear; Standard
Model Open Gear. Lord & Burnham, 1133
Broadway, N. Y.

VIOLETS.

Malcolm Orr, N. Saugus, Mass.
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5000 clumps California violets, ready now,
finest stock in the west, 4 1-2 c. 250 or
more at 4c. J. W. Dunford, Clayton, Mo.

WIRE STAKES

W. W. Coles, Kokomo, Ind.
Galvanized Wire Stakes.
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Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 88 40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
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- 864,863. Fertilizer Distributer David M. Sannelson, Chanders Valley, Pa.
- 864,953. Horticultural Implement. David Craig, Melrose, Mass.
- 865,097. Lawn Mower. Emil Franke, Astoria, N. Y.
- 865,161. Lawn Mower. William H. Coldwell, Newburgh, N. Y.
- 865,241. Sickle Drive for Mowers and the Like. Charles A. Darrah, Ottumwa, Iowa.
- 865,294. Plowing Machine. George M. Clark, Higganum, Conn.

Issued September 10, 1907.

- 865,437. Device for Gathering Fruit. Maurice J. Sheahan, Rochester, N. Y.
- 865,502. Apparatus for Testing Seeds. William H. Kissel, Avoca, Iowa.
- 865,521. Windmill. John W. Park, Excelsior Springs, Mo.
- 865,534. Draft Equalizer. George P. Sampson, Newton, Iowa.
- 865,580. Windmill Tower. Josephus H. Eubank, Ysleta, Texas.
- 865,634. Draft Equalizer. George P. Sampson, Newton, Iowa.
- 865,703. Vine Separator for Potato Diggers. Arthur L. Hoover, Avery, Ohio.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

SITUATIONS WANTED

SITUATION WANTED—German, by a practical cut flower and pot plant grower, also experienced in landscape gardening, vegetables, etc., 35 years of age, married, two children. Sober, industrious and reliable in all branches; best of references. Address, L. L., Box 67 Johnsville, Dutchess Co., N. Y.

SITUATION WANTED on private place. Thoroughly capable of taking charge and growing all fruits, flowers and vegetables usually required on a gentleman's place. Apply to Alex. Montgomery, Waban Rose Conservatories, Natick, Mass.

SITUATION WANTED—Young man, single, seeks situation as fern raiser and grower. Several years' experience. Good references. Address J. C. Wams, Verdun Post Office, Montreal, Canada.

SITUATION WANTED by gardener with good record, private place preferred. Married, two children. Address N., care HORTICULTURE.

SITUATION WANTED in general greenhouse work; single, age 35, five years' experience, commercial. Address W. W., care Horticulture.

WANTED. Position as manager of plant and fern growing establishment. Experienced. L, care HORTICULTURE.

FOR SALE

FOR SALE—20,000 feet of land, two greenhouses 20x60 and 12x50 respectively, with nice office; dwelling with six rooms and bath, with good will of greenhouse business. Five miles from Boston. Three lines of cars pass the door. Address Rob. Care Horticulture, 11 Hamilton Pl., Boston.

FOR SALE—A retail florist store situated in the town of Union, N. J. Excellent opportunity for right party to secure a good paying business. Reason for selling; am going into the undertaking business. Terms reasonable. Address, William Schumann, 223 Bergenline Avenue, Union, N. J.

STOCK WANTED

WANTED—Aspidistras, green and variegated in exchange for orchids and stove and greenhouse plants. Address, Aspidistra, Care Horticulture.

MISCELLANEOUS WANTS

WANTED: A second-hand Hot Water Boiler of 500 or more sq. feet direct radiation capacity; also second-hand two-inch and one and one-half-inch piping and fittings, suitable for heating a greenhouse. E. M. Ingalls, 43 Whiting St., Lynn, Mass.



BETWEEN YOU AND ME, What do you think of the Buyers' Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying

BORDEAUX MIXTURE.

It may seem that the subject of Bordeaux Mixture has been pretty thoroughly considered, but so many questions are constantly sent to experiment stations and publications in regard to its manufacture and use that a discussion may not be out of place.

Its Discovery.

In all bulletins and articles published on plant diseases, Bordeaux Mixture plays a very important part in the recommendations for treatment. It was accidentally discovered in France in the little town of Bordeaux, about 1832, by a man named Millardet. He was losing many of his grapes near the road from depredations of passers-by, so to protect them he covered the vines with a coating made of copper sulphate and lime. In the fall there was such a noticeable difference, in amount of mildew, between those treated rows and the rest of the field that he observed it. By further experimenting, the value of Bordeaux Mixture was discovered.

Its Composition.

As ordinarily prepared, Bordeaux Mixture is a thick, sluggish, bluish liquid composed of copper sulphate and lime carried in water. The fungicidal value comes from the copper, one-millionth part being often sufficient to destroy plant life. If the copper sulphate (commonly called "bluestone") is dissolved in water it will have the same effect as the mixture, but it has the disadvantage of being quickly washed off the trees, and furthermore, has a tendency to burn the foliage, especially where large drops collect. The lime in the Bordeaux Mixture, on the other hand, forms compounds which act as carriers and retainers, liberating but a little of the copper at a time. As a very small quantity is all that is needed, a good



Making Bordeaux Mixture and a Hand Pump for use in Small Orchards.

coating will last through several very heavy, prolonged rains. And the lime prevents burning, thus doing away with the second objection.

An amateur perusing technical bulletins dealing with this subject is very likely to become confused over the large number of formulas, different ones often being mentioned for the same purpose. The 5-5-50 may be considered the basis of them all. This means five pounds of bluestone and five pounds of lime to fifty gallons of water. For different plants and different diseases this is changed to some extent. For instance, dormant trees can stand a heavier dose than those in full leaf. The peach is more liable to suffer from an ordinary formula than the apple or pear, and this susceptibility has to be taken into account. Some men overcome this by adding an excess of lime, others by using less basic material. And so it goes. A carefully made formula may safely vary a little provided there is an equal or excess amount of lime. A weak one carefully made and well applied will give better results than a strong formula hastily put together and carelessly squirted on.

It seems a very easy matter to put copper sulphate and lime together in water, but the actions which take place are very complex, and in fact, not well understood by the chemists. In general, the lime which is calcium hydroxide, has a stronger affinity for copper than the sulphuric acid, and when the two ingredients are put together calcium copper hydroxide comes down as a soft, light blue precipitate while some of the lime is given up and unites with the acid to form calcium sulphate. But there are a number of minor changes, especially with impure materials. A knowledge of these is not important, only in so much as they show the need of very thorough methods to insure a proper mixture.

Its Preparation.

The preparation of the 5-5-50 formula will serve as an illustration. Let us suppose we are to make a hundred gallons of prepared spray. Good lumps of unslaked lime are secured, the best coming from the centre of the barrel. Ten pounds is carefully weighed out (twice the amount called for in the formula, for the hundred gallons), and placed in a bucket or half barrel. It is then carefully slaked by adding water, using only enough to keep the mass dampened and repeating frequently to prevent burning. When thoroughly slaked the lime should be pasty, a little rubbed between the thumb and finger giving no sensation of grit or coarseness. When this is obtained, a very good Bordeaux can be made. Meanwhile the ten pounds of bluestone should be dissolving. It can be put in the night before if so desired. A quick way is to put the bluestone in a burlap bag and suspend this in a barrel or tub. No metal receptacles will do, for the copper corrodes most of the common kinds. Hot water will also hasten dissolving.

Just previous to using the Bordeaux mixture, one-half the lime is placed in a barrel and diluted with clean water to twenty-five gallons. One half the bluestone water is also brought up to twenty-five gallons in another barrel. Then by pouring the lime water and bluestone solution simultaneously pail by pail through a sieve into a third barrel a complete Bordeaux Mixture will result, which will stay in suspension and give the best results when



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ANDREW WILSON, Dept. 8,

SUMMIT, N. J.

sprayed on the trees. This scheme is for use when the receptacles are barrels. If the spray tank holds a hundred gallons, all the lime and bluestone can be brought up to fifty gallons each and then drawn directly into the tank. Stock solutions of lime and bluestone may be kept on hand. They will do as well as freshly prepared material, if the lime doesn't dry out enough to crack. The addition of water from time to time will prevent this.

Its Use.

In spraying, a nozzle which throws a very fine mist is the best such as the Bordeaux or Vermorel. The material should be kept constantly stirred and driven through the pipes with a high, steady pressure.

When arsenicals are used, they may be carried in the Bordeaux Mixture without impairing it. If Paris green is used a slight excess of lime should be put into the original formula.

Benefit from spraying will be in proportion to the care in preparing the material, thoroughness in spraying, and time of application. Different diseases require different treatment, but the correct data can be obtained from government or experimental station bulletins and reports, or from the various horticultural and agricultural magazines.

Its Limitations.

Bordeaux Mixture is a preventive and not a cure. The spores of a disease are carried by water, wind or insects to the plants. When these minute "seeds" come in contact with moisture they germinate, and, if nothing prevents them, enter the tissues of the plant. When Bordeaux Mixture is present the copper poisons the sprouting germs, causing them to shrivel up and die. Once within the host they are beyond reach, and so the spray must be on before the germs start to grow. However, if infection has started further spraying will prevent damage on uninoculated parts.

While not a panacea for all ills Bordeaux Mixture has a wide range of usefulness, and the grower of a few plants or trees troubled with disease can secure just as good results as the owner of acres.

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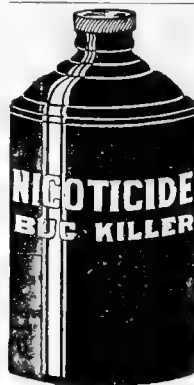
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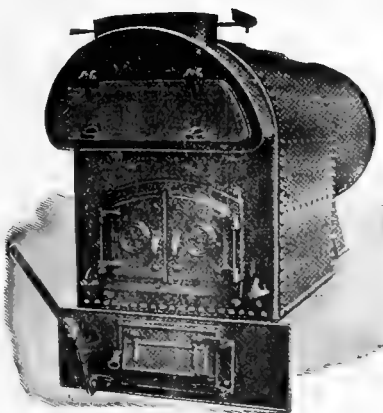
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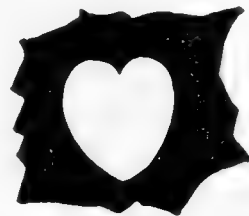
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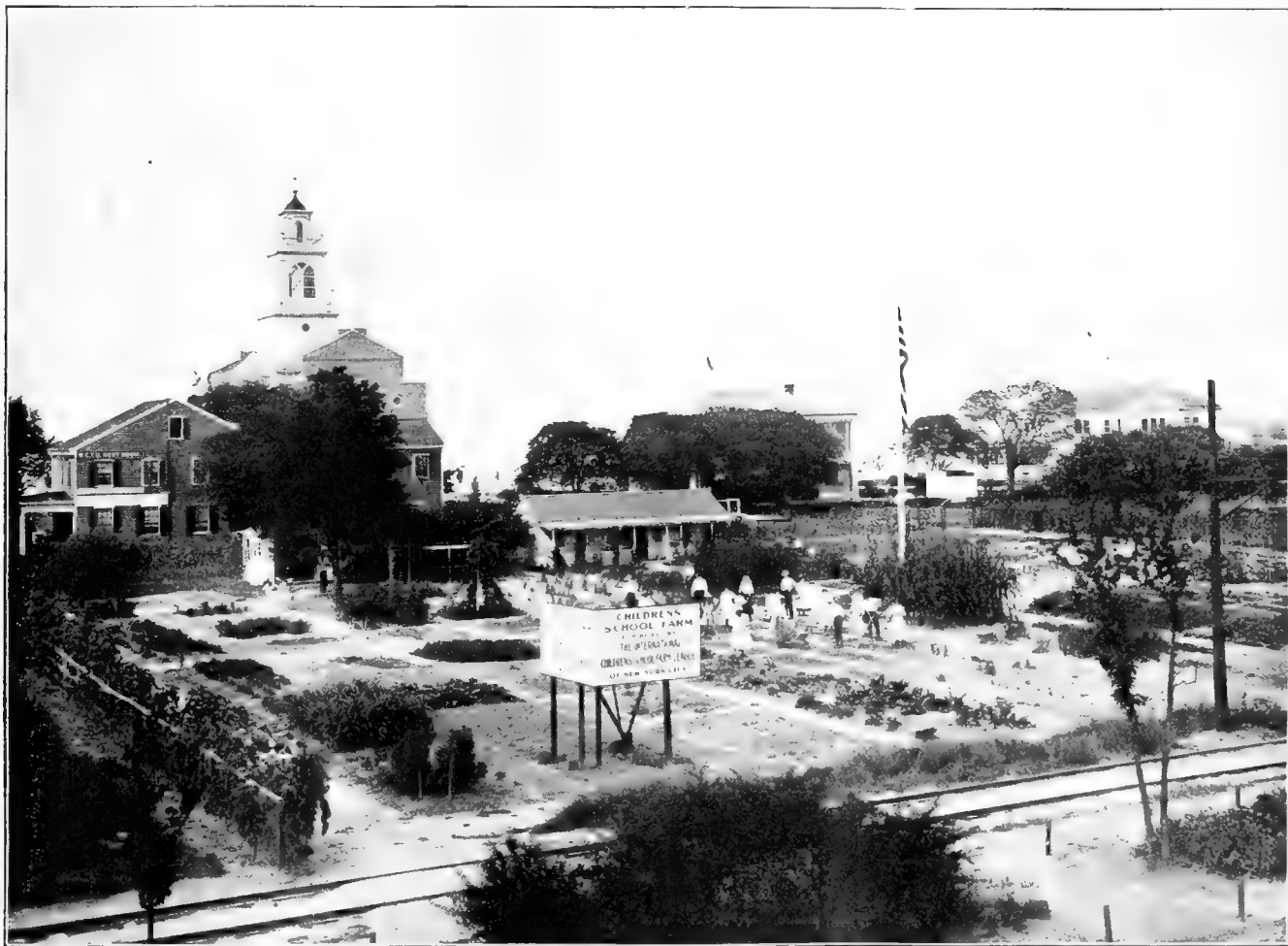
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HORTICULTURE

Vol VI.

SEPTEMBER 28, 1907

No. 13



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Autumn Tints in Trees and Shrubs

Probably above all others, this country is favored in the possession of a large list of trees and shrubs which gladden the landscape with their brilliant coloring in the fall, and also in having climatic conditions which favor in a marked degree the bringing out of such colors to a high state of perfection. In Great Britain this yearly transformation cannot be so sanguinely expected as is the case in this country, for one is not so sure there of a dry sunny autumn which from general observation seems to be conducive to the production of the beautiful coloration during the period of those mysterious chemical changes taking place within the leaf of the plant.

Again, it seems that a too vigorous growth due to an exceeding wet summer or a very rich soil makes a good display in the fall less likely, especially should a wet summer be followed by a dull fall, but, with the weather as we generally get it here, a vigorous growth means a greater wealth of color and year by year we look forward with delight to the transfiguration which comes over many of our deciduous trees and shrubs even though we know it betokens for them the coming sleep of winter. First and foremost among trees noted for their fine colors we must place the oaks, not because there are no others that possess even more striking shades, but there are none which retain their leaves for so long a time after the color has been acquired, and what finer sight could be desired than the scarlet or the pin oak when in their autumn glory. The Sweet Gum (*Liquidambar styraciflora*) and the Sour Gum (*Nyssa multiflora*) are also a worthy pair with their dull red burnished foliage.

Trees furnishing yellow tints are not lacking, for the elm, birch, tulip tree, horsechestnut and a few of the large maples, as the Norway, sugar, and the European sycamore maple, all add their individual beauty. Touching on maples, what is more beautiful than the several varieties of Japanese maples, charming are they from the time they unfold their tender foliage until, tinged with their dying color, the leaves drop one by one, the effect being heightened when a group of them is backed up by some graceful growing evergreen.

Quite a few more trees might be mentioned as possessing autumnal beauty in a greater or less degree, but the shrubs claim a share of our attention, for among these, too, we have some rich colors, as in the sumachs, all of which afford a wealth of warm color to the landscape and for this reason large plantings are made on many estates of *Rhus typhina* and *R. glabra*. Among the lower growing shrubs few can surpass the little *Berberis Thunbergii* in its persistent beauty in the fall and if only for this it will surely remain a favorite with everybody. The mollis section of the azaleas, though fleeting in their autumn beauty, gives us some rare shades in crimson, red and gold, as also do their near allies, *Vaccinium corymbosum*, while another pretty little shrub is *Fothergilla alnifolia*.

A few of the viburnums acquire attractive colors, as *viburnum opulus* and *cassinoides* while the tiny foliage of *Spiraea Thunbergii* though transitory, is very pretty when it puts on its autumn garb. The brambles, *Rubus fruticosus* and varieties also may be mentioned as affording charming effects planted in wild positions where little else would grow and rewarding us generously in the fall with shades of coloring which ought to raise them higher in our esteem.

Lastly a word for some of the vines which all through the summer make beautiful many an otherwise rough and uncouth view and assume rare hues for several weeks in the fall. Of these none is more beautiful than the general favorite *Ampelopsis Veitchii* which even at this early date is commencing to bronze, a sign of the coming of fall. The Virginia creeper, though perhaps not quite as good as the former, is very showy, however, while *Vitis Coignetiae* with its large ornamental foliage and *Vitis Thunbergii*, both of which are not so often seen in this country as they should be, are a sight not easily forgotten, assuming as they do a rich crimson coloring, and when at last "The melancholy days are come and heaped in the hollows of the grove, the autumn leaves lie dead" we cannot forget that they were once beautiful.

Edwin Matthews.

A Few Remarks on Phlox Decussata

At first sight the *Phlox decussata* is perhaps as easy to cultivate as any other hardy plant, but it is a plant that when once in the garden is very much neglected, to its detriment. How many dealers have experienced complaints from their customers, that their phloxes are not as handsome as they were, they are deteriorating, that the spikes and individual flowers are smaller, which shows neglect in some form or other.

There are three good reasons for this backward tendency: First (not often seen), is want of sufficient nourishment; second, they have been too long in one bed; and third, let me emphasize the point strongly, the growth is never thinned out. The best time to do this thinning is when growth is one or two inches high. There are sure to be a number of weak shoots; do not cut them off, but pull them up—if you cut them they will branch and grow again.

Another complaint that frequently comes forward is, "Why do my phloxes mildew?" It is this failing to thin out the shoots when young that probably causes mildew about flowering time. How can they help becoming unhealthy, with so many more stems to feed than the plant can conveniently look after, so that when hot, close days come there is no proper circulation of air. I do not say you will not have mildew if you follow above, but there is decidedly less chance of it.

A splendid preventive for mildew is a peck of lime and half a pound of sulphur. Slack the lime and apply sulphur at the same time. When well mixed, place in a vessel sufficiently large enough to allow of four or five inches of clear liquid after settling. Let stand for two or three days. One part of the liquid to eight or ten parts water is strong enough. Use about twice a week. Stir well and fill up mixture after using each time, and it will last all summer.

Another trouble frequently met with, is the mistaken idea that a phlox bed gradually degenerates to ugly magenta shades. This, of course, is caused by allowing seeds to fall in the bed, and as the ugly colors are always stronger than the pretty ones, the result is inferior varieties eventually predominating. To remedy this, cut off the flower heads as soon as they are through blooming, but do not cut them down to the ground. Take off only the flower head, and you will probably have another season of blooms before frost. Phloxes do well in any position, and in any kind of soil, although a prepared bed similar to that usually made for roses is the best.

When planting do not mix the colors, but plant in as large masses as possible of one kind or color. Fifty or one hundred in a mass will make the finest show imaginable, but it is better to have one variety, rather than one color in several varieties, in a mass, as the flowering season varies from one to three weeks.

There are a large number of named varieties of Phlox decussata catalogued by a number of firms, and each firm naturally considers their own collection the best, and yet I think you will agree with me, that if twenty-five or thirty varieties were selected from every one offering them, all different names, when in flower, the same number of varieties would be all you would need.

In view of this fact I will not attempt to enumerate what we consider the finest varieties, conflicting as I may with other opinions. But let me give one word of advice to those who are all the time introducing new varieties, and that is, do please avoid flat-headed spikes. They spoil any form that the phlox is noted for. Not only are they insignificant, but they do not seem to last in bloom nearly as long as the others, such varieties as Lumineux, Lord Rayleigh and Mars le Tour.

Follow, rather, the old standards, with their enormous conical shaped spikes like Saison's Lierval, General Chanzy, and that splendid late flowering variety, so seldom seen, Coccinea.

Frederic J. Rea.

Characteristics of the Ginkgo

Editor HORTICULTURE.

Dear Sir:—I have been very much interested in the various communications you have published regarding the Ginkgo tree. It has been used very freely in this cemetery as it is not only graceful in appearance and immune from pests, but because it is one of the few trees which do not stain marble.

I presume my friend Robert Cameron having his time occupied in classifying "Job" has not had time to write you on the question of how far apart the seed bearing tree may be from the male species and yet be fruitful. Three years ago the Ginkgo trees at the Botanic Gardens bore fruit, and the nearest male tree was in Mount Auburn Cemetery, about a mile away as the crow flies. At that time it was stated that through investigation by the Japanese horticulturists it was found that the trees were fruitful if not over a mile and a quarter apart.

Respectfully yours,
JAMES C. SCORGIE.

Mt. Auburn Cemetery, Cambridge, Mass.

Zonal Pelargoniums for Winter Flowering

Although geraniums are very showy when artistically arranged for summer bedding they are fast becoming obsolete and have, to a large extent, given place to the more interesting herbaceous plants.

On account of the fact that the single geraniums are more continuous in flowering and can be had in attractive condition during the duller months of the year they are admirably adapted for winter flowering and relieving a strain upon the resources of an establishment when relief is most needed.

The old saying that anyone can grow a geranium is infallibly a false one. Almost every gardener grows more or less of these plants and we very seldom find a good display of winter flowering pelargoniums.

CULTURE

The best time to propagate these plants is in the fall, for winter flowering, securing short jointed firm wood, rejecting all those which are gross and sappy, also avoiding propagating too many varieties. Five or six good harmonious colors are sufficient.

When the cuttings have formed roots, pinch out the points. In a few weeks fresh growth will appear and will require repotting. Firm potting is imperative, otherwise sappy and unfloriferous wood will be the result. Continue pinching the points out at every second or third joint until the latter part of August; by this time they will be in their flowering pots and six to seven inch pots will be found the most servicable for winter flowering.

During the summer the plants should be plunged in a sunny position out-doors to secure short jointed firm wood and frequently turned to prevent the roots from going outside the pots. Young plants invariably give the best results, always provided they are not allowed to weaken themselves by flowering throughout the summer.

TREATMENT

Until near the time for housing, which should be about the end of September, pinch off all the flowers. After housing give ample room—this is an important point—and avoid excess of heat and moisture as this promotes sappy, flowerless growth. They require a temperature ranging from 50 degrees to 55 degrees, with rather a dry atmosphere, with the addition of a weekly supply of liquid manure.

When the flowers begin to open pinch off the first two or three flowers, otherwise the center flowers of the trusses will be past before the truss is fully expanded and a space in the center will be left.

Under this treatment no tying or unsightly stakes will be required and the plants ought to produce abundance of perfectly formed trusses and continue flowering for a considerable time during the duller months of the year.

Andrew McKendry

British Horticulture

HONORS FOR HORTICULTURISTS

The Royal Horticultural Society, a few years ago, established a commendable method of recognizing horticulturists who have distinguished themselves in any special branch. Each recipient is presented with a Victoria Medal of Honor, and the number who are the bearers of this distinguishing mark is limited to 63. The Council of the Society have lately filled these vacancies caused by death amongst this distinguished group by the appointment of Sir John T. D. Llewelyn, Bart., Henry Ballantine and Alexander Dickson. Sir John Llewelyn has for many years taken a keen and active interest in horticultural matters, and he is one of the vice-presidents of the Royal Horticultural Society. He is also President of the National Potato Society. One of the most popular potatoes in commerce bears his name. Mr. Ballantine is orchid grower to Baron Sir Henry Schroder, whose brilliant orchid displays are the delight of visitors to the principal shows of the Royal Horticultural Society. Alexander Dickson is a member of the firm of Messrs. A. Dickson & Sons, Newtownard, Ireland, who have gained wide-spread renown as successful rosarians. Mr. Dickson is a member of the National Rose Society's Committee. The firm's new roses are always the cynosure of admiring eyes at the National show.

THE VALUE OF SPRAYING

In the course of an interview on the spraying of fruit trees, W. E. Collinge, a well known expert, of the University of Birmingham, stated that this practice dates back to the early part of the 16th century, but it was only within comparatively recent years that it has been placed on a sound and scientific basis. As a result of various equipments Mr. Collinge has perfected two fluids which he terms V1 and V2. During the approaching winter he hopes to see thousands of fruit trees sprayed with V1. He intends to personally superintend some of these, and, if necessary, will find the means to defray the cost. Mr. Collinge states that he is perfectly certain of the results, and that they will establish once and for all the practice of winter spraying as an ordinary farm operation. Questioned as to how we stand in this country as compared with the United States, Mr. Collinge said we were very much behind the American fruit growers, who have a magnificent Department of Agriculture at their back, in addition to the various State Experiment Stations. He added, "We are certainly moving rapidly and I hope in future to see the establishment of experimental farms with laboratories attached, so that investigation can be made, and conclusive evidence tabulated on the spot." Mr. Collinge has certainly endeavored to make up for the deficiencies of the British Board of Agriculture.

A FAMOUS ESTATE

The gardens at Madresfield Court, Malvern, belonging to Earl Beauchamp, are noted for their charming features, many of which have been developed by Mr. Crump, who for the last 25 years has been in charge. Great attention is paid to fruit culture. In a nursery of about four acres, fruit trees are raised in quantity and distributed gratuitously to Lord Beauchamp's farm and cottage tenantry, in standard and bush form. About two thousand trees per annum are dealt with in this manner, and though apples predominate, pears, plums, cherries, apricots, currant and gooseberry bushes are also distributed. A trial ground has been set apart to test the varieties suitable to the district before propa-

gation. There are no less than 250 varieties of apples, 80 varieties of pears, 60 of plums on trial at the present time. Any tree that fails to realise three marks in nine years is at once discarded, and replaced by a new one. Of the later introductions in strawberries, Mr. Crump considers that Laxton's new Progress stands out with superiority, owing to its good constitution. Gooseberries, and red and white currants are grown in Y-shaped cordons, each tree with four branches or cordons, trained to iron wire and sticks vertically.

W. H. Adsett.

Eurya Latifolia Variegata

This old greenhouse plant is one of the most useful in cultivation, and the demand is greater than the supply. The difficulty experienced in propagating has prevented its taking equal place with *Araucaria excelsa* and *Ficus elastica* as a hard commercial plant worth growing in quantity. The selection of variegated plants with a constitution is somewhat limited, as variegated stove and greenhouse foliage plants are liable to functional weakness when exposed to extremes of temperature. *Ficus elastica* variegata is an example, undoubtedly a good plant to look at, but it is common knowledge how inferior it is to the type on account of the spotting of the variegation; heralded as an acquisition and propagated in immense quantities it has failed to fulfil expectations, the law of the survival of the fittest working with urgency in commerce as in nature has fixed its place as suited for the intermediate house but not for rough decorative purposes.

Eurya latifolia variegata is without these defects and there are few plants that will emerge from rough treatment with a more presentable appearance. Especially is it suitable as a window plant for cold rooms, growing into a nice specimen in a few years. The secret of success in propagating is to take only small cuttings when growth is starting, putting them in pure river sand in well drained pans; after two months when callous has formed, pot into thumb pots in fine peat and sand, filling the hole for cutting with sand and potting firmly, afterwards plunging in case again in gentle water with care but syringe daily; see to it that the case does not get hot, by shading heavily, or cuttings will shrivel beyond recovery. If the above method is followed 45 per cent. should strike. There will always be a few which form a hard callous but which will never root and after three months they may safely be thrown away. The young plants may be grown on in a cool house, syringing frequently to keep down thrips. Stake up the leader and prune side growth to form shapely plants and in 18 months they should be nice salable stock, but if grown on they are always useful and make good prices as specimens for decorative work. In every way it is a plant worth more attention and if it be urged that its propagation is too slow and baffling for the man in a hurry, do not attempt it, but if one can wait awhile and attend to the trifling details so necessary to good propagating, success is simple and sure. "Trifles make perfection and perfection is no trifle" is equally as true of raising plants as of building monuments.

Edgar Elvine

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drought and heat for two or three weeks in mid-summer and yet find smiling brightly on him when he returns is the kind that will win the appreciation of the ordinary type of present-day amateur, and here the annuals such as we mentioned are efficient auxiliaries of the seedsman and plantsman making friends for him where, without them, he would surely be discontent. We might add to the list of tough annuals suitable for low borders and bright bedding effect under unfavorable conditions of weather and attention, the dwarf Phlox Drummondii, verbenas, Zinnia Haageana, single dwarf French marigold, larkspur, acroclonium, rhodanthus, balsam, Dianthus, chinensis, erysimum, eschscholtzia, argemone, coreopsis, schyzanthus, mignonette, nigella and all the mesembryanthemums and similar "fleshy" material. It is a fact not as well known as it should be that the dwarf sweet peas will stand drought and continue full of flower long after the tall-growing types have succumbed. They are extremely pretty, too, as border plants, although not of much use for cutting because of lack of sufficient stem. These observations are the direct result of the exceptional summer through which a large section of the country has just passed. In times of adversity it is as true with plants as with men that faithful friends are proven.

A means of popular education

The Shrewsbury Show, Shropshire's great annual floral and musical fete, according to accounts which we have received, has again demonstrated the mighty possibilities in an affair of this character under clever management. Even our British cousins, given to condemnation of the American propensity for bombastic expression in describing its glories, find themselves obliged to resort to the stock phrase of America's celebrated showman and bestow upon it the title of "The greatest show on earth." And when we read that the attendance on the second day approximated 70,000 persons—a figure more than double that of the population of the town—that the premium list, exclusive of cups and medals amounted to \$6000 and that the entries reached nearly five thousand, it cannot be denied that the claim is not without foundation. It is freely acknowledged that the various side-shows and sporty features of the fete are potent factors in its success and that the bands and fountains and spectacular diversions have a strong influence in drawing the vast attendance which this far-famed exhibition enjoys. We see no reason for adverse criticism on this account any more than we see in the merry games that have become a factor in enhancing the interest and attendance at the summer meetings of our own S. A. F. John Westcott's favorite saying that "to make a successful school you must first get the scholars," is everywhere and always true and applicable. It cannot be gainsaid that the rustic who goes to Shrewsbury with no thought of horticulture returns a more receptive pupil for garden knowledge and consequently a more likely buyer of garden material after inspecting the big display of garden products there presented.

Our brief editorial on "the value of common things" in last week's issue has evoked favorable comment. It was, of necessity only briefly suggestive on a topic on which many columns might profitably be written. The garden which its owner may go away from and leave to the chances of

Some faithful garden friends

DECORATION OF MR. GEO. SCHNEIDER.

Of all the foreign gardeners in England it is doubtful whether there is one who is so highly esteemed by English horticulturists as the genial president of the French Horticultural Society of London. Founded in 1889 by a few French gardeners then resident in London, the society has made enormous progress and rendered much useful service to English as well as French gardeners, and it is now a society of considerable importance.

Mr. Schneider, as one of the original founders and the president ever since its inauguration, has generously devoted much of his leisure to the advancement of the society and the well being of many of the young men who come over from France and Belgium to complete their horticultural training here in England. Such service as this could not fail to be recognized by the French government sooner or later, and in 1896 our good old friend Schneider was granted the Cross of Chevalier of the Order of the Merite Agricole. Since then the society has continued to progress and accomplish much useful work, under the able and devoted supervision of its president, who in spite of nearly 40 years' residence in England still preserves his French nationality. In further recognition of all he has done the Government of the French Republic has now promoted Mr. Schneider to the rank of "Officier" of the Order of which he was already a conspicuous and deserving member.

C. H. P.

NEW ROSE HARRY KIRK.

Messrs. Alexander Dickson and Sons have developed a new Hybrid Tea rose named Harry Kirk, which promises to be a very valuable addition to our list of Hybrid Teas. The color is a rich creamy yellow, shading to orange at the base of the petals. The buds are long, of great substance and have opened up here to four and a half inches in diameter. The innermost petals when the bloom is fully opened curve inward so the flower does not present a flat appearance. The blooms last very well and are strikingly attractive. The plant is a vigorous grower and a good bloomer, with strong, healthy foliage and seems to be admirably suited to our climate. I believe that we have at last obtained what we have been so long looking for, namely, a first rate yellow rose that will do well out of doors. The plants were set out last November at Philadelphia and came through the winter and very trying spring without protection.

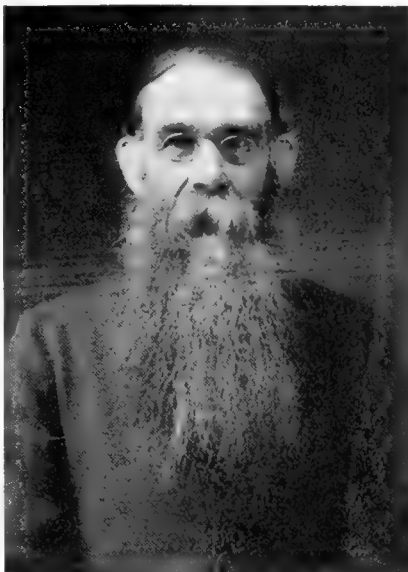
ROBERT HUEY.

OUR FRONTISPIECE.

One of the most interesting spots in the Jamestown Exposition, from the standpoint of the practiculturist, is devoted to the children's gardening operations, which is, for the first time, illustrated in the frontispiece to this paper. In the background are seen several of the State buildings, the central one with the cupola being the Massachusetts Building.

PRESIDENT-ELECT CANADIAN HORTICULTURAL SOCIETY.

Mr. John Walsh, who was recently elected president of the Canadian Horticultural Association, was born in Kerney County, Ireland, November 4, 1847. When 16 years of age, he started life in a big private estate, called "Richway's," under a narrow-minded gardener of old, named D. Mealie. Young Walsh soon found out that his work was up-hill and that no knowledge could be got from the head



JOHN WALSH

gardener. In 1868 he came to Montreal, where he has made his home ever since. His first employment was with Mr. B. Gibbs, on St. Catherine street, exactly where the Princess Theatre is being built. He took charge, thirty years ago, of the estate of the late W. W. Ogilvie, where he has remained ever since. Mr. J. Walsh is deservedly popular with his fellow tradesmen of this city and elsewhere where known.

PERSONAL.

Visitors in Detroit: Geo. A. Murphy, Cincinnati, O.; R. Fancourt, Philadelphia, Pa.

W. A. Adams, well known among the trade and a young business man of the best personal standing, is a candidate for the Republican nomination to be supervisor from his ward in Buffalo, N. Y.

There is good news from the sick bed of E. A. Moseley of Newburyport, which will be welcomed all over the country, for there is no better type of the useful citizen and faithful public servant than the secretary of the interstate commerce commission.—Boston Globe.

Harry O. May, the genial young treasurer of the American Rose Society, son of the eminent rose grower, John N. May, was married on September 18 to Miss Charlotte M. Jenkinson, at Newark, N. J. Mr. May, Sr., presented the young couple with a new dwelling at Summit, where they will make their home on their return from a bridal tour.

OBITUARY.

Henry A. Jones.

Henry A. Jones, for the past three years travelling representative of Ralph M. Ward & Co., New York, died at the home of his daughter, Mrs. Florence J. Barton, Cromwell, Conn., on August 23rd. His illness was of short duration, having been attacked with acute indigestion while on the road. He hurried home, but died in four days. Mr. Jones was a man of sterling qualities, genial and companionable, and made a great many friends during his travels. He was born in Baltimore, Md., Feb. 29, 1840. He married Frances Katherine Howser of Baltimore, who died in 1881. Four daughters and one son survive him.

Charles H. Grigg.

Charles H. Grigg, for many years in the retail florist business in Philadelphia, died on the 22nd inst. from an attack of vertigo. Mr. Grigg was at one time a member of the firm of Graham & Grigg, which by its enterprising methods over twenty years ago set a new pace in the business of retailing cut flowers in Philadelphia. Later he was in business for himself and was for a time manager of the Century Flower Shop when that establishment was started by H. H. Battles.

Other Deaths.

Mrs. A. La Rochelle of New York died on September 11, aged 60. For many years she has carried on a retail business at 231 Eighth avenue, which will be continued by her daughter.

Andrew Boylan, gardener at the City Hospital, Philadelphia, Pa., was drowned in the Delaware River on September 10.

NEWS NOTES.

Leon C. Ellis has been appointed a member of the Pine Grove Cemetery Commission of Lynn, Mass.

Charles Uttley of Harrisburg will open a branch store at Altoona, Pa., on October 1 with Miss Elma Heeter in charge.

A defective electric light wire caused a slight blaze in the basement of Mallon & Sons, Brooklyn, N. Y., but the damage was trifling.

Under the name of the People's Floral Co., Max Eller has opened an attractive store at 821 Walnut St., Kansas City, Mo., with J. D. Handler as manager.

G. X. Amrhyn, superintendent of parks at New Haven, Conn., met with a serious accident recently. While driving near Edgewood park the bit broke, the horse bolted and threw Mr. Amrhyn out severely wrenching his leg.

In the Arnold Arboretum are a number of young grape vines, raised by Mr. Dawson from seed procured by Prof. Sargent in China, who believes that the fruit will be found equal to some of the finest tender white grapes. The fruiting of these novelties will be an event of great interest, and should they turn out as hoped for, they will constitute a sensation of more than ordinary degree.

NEWS OF THE CLUBS AND SOCIETIES

CONGRESS OF HORTICULTURE.

The "Congress of Horticulture" was held, according to announcement at Convention Hall, Jamestown Exposition grounds, Norfolk, Va., on Monday, September 23. The attendance was good, there being from fifty to sixty present at the various sessions. The forenoon session was presided over by Warren H. Manning of Boston, instead of J. H. Hale, to whom this duty had been assigned but who was prevented from coming by illness. Under the heading of Cultural Problems, papers were read as follows:

Soils, by Prof. F. H. King, Madison, Wis.; Plant Diseases, by Dr. A. F. Woods, Washington, D. C.; Insect Enemies, by A. L. Quaintance, Washington, D. C. Under the subject of Breeding and Propagation, a paper on Florists' Flowers by W. N. Rudd of Chicago was read by Prof. H. C. Irish of St. Louis, Mo.

At the second session, 2 p. m., Prof. L. R. Taft of Michigan Agricultural College presided. Papers under the heading of Commercial Growers were read as follows:

Garden Vegetables, by W. W. Rawson of Boston; Cut Flowers, by F. R. Pierson, Tarrytown, N. Y.; Forest Trees, by Prof. F. W. Rane, Boston. Under the heading of Local Horticultural Conditions, Prof. W. T. Macoun of Ottawa, Canada, spoke for Canada, J. K. M. L. Farquhar of Boston for the East, L. A. Goodman of Kansas City, Mo., for the Central West, and Prof. Irish presented the plans which are on foot for associating under one central head the national societies representing the various horticultural interests in America.

The evening session was presided over by Prof. S. A. Beach, of Ames, Ia., and papers were read as follows: Civic Horticulture, by Warren H. Manning of Boston; Our National Florists, by W. L. Hall, Washington, D. C.; Landscape Gardening, by John C. Olmsted, Brookline, Mass.; Schools and Experiment Stations, by Dr. A. C. True, Washington, D. C.; Government Aid, by Dr. B. T. Galloway, Washington, D. C.; Horticultural Press, by Leonard Barron, New York; Federation and Cooperation, by J. C. Vaughan, Chicago, Ill. Mr. Atkins, who is at present engaged in the work of civic improvement at Annapolis, Md., gave an account of what he is doing there. Mr. Farquhar called attention to the splendid opportunities enjoyed by the gardeners employed on private estates to advance the practice and knowledge of modern horticulture, and commenting on Mr. Vaughan's views on general horticultural work, as expressed in his paper, mentioned the Society of American Florists and Ornamental Horticulturists as an organization entitled to the highest credit for its work on this line. Mr. Vaughan sharply criticised this statement, characterizing the S. A. F. as a body working on narrow lines. Mr. Vaughan is now president of the "National Council of Horticulture."

Announcement was made of the meeting of the American Nut Growers' Association to be held on the following day, and the sessions of the Ameri-

can Pomological Society, Society for Horticultural Science and Federation of Horticultural Societies assigned for the remainder of the week.

An animated discussion on the well-worn topic of the comparative value of scientific and practical education ensued, and continued until a late hour. Reference to this interesting debate will be made in later issues of Horticulture.

NORTH SHORE HORTICULTURAL SOCIETY.

The meeting of this society, on the 20th inst., at Manchester, Mass., was one of the best ever held. Maurice Fuld, secretary of the New England Dahlia Society, was the lecturer, and his subject was "Dahlias." He gave a history of the dahlia and the origin of the different classes, illustrating his remarks by specimen flowers which he had brought. The work of hybridizing, and producing new varieties, the culture, soils, manures, treatment best suited for successful dahlia growing and the lifting and storing of the roots for the winter were gone into in detail. The work of the N. E. Dahlia Society was also referred to; their chief work being the classification of the flowers. Herman Thiemann followed, on the same subject, interspersing his remarks with his usual wit and humor, advocating the formation of a national dahlia society, whose judgment in all matters relating to dahlias should be accepted by growers in the United States as final. A vote of thanks was extended to both gentlemen. The attendance was good and the speakers were listened to with close attention.

President McGregor had on exhibition two tables of very fine seedling single and anemone flowered dahlias of his own raising. W. T.

MORRIS CO. (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

The main business at the September meeting was the final arrangement for the show, which takes place in Madison on October 31st and November 1st next. Chrysanthemums, roses and carnations in this neighborhood are better than usual at this time, and a fine show seems assured. Over \$500 in cash is devoted to premiums.

A prominent Morristown man gives \$50 in one prize for best 24 chrysanthemum blooms in 24 varieties, and another offers a silver cup for six white and six pink blooms. The cup is for members only; the other prize is open to all.

Geo. H. Hunt, superintendent to Robt. D. Foote, is to read an essay on orchids at the October meeting, and Lager & Hurrell are to put up an exhibit to illustrate the essay.

John Heeremans, superintendent at Glimpsewood Manor, Morristown, announced that he has resigned his position to accept one of larger magnitude and greater opportunities. Mr. Heeremans has been connected with this society for a number of years, having been presiding officer for two terms, continually serving on committees and working indefatigably for the in-

terest of the club, besides being a most successful exhibitor at the club shows. A set of resolutions of regret, showing the esteem in which he is held by his brother members, was adopted by a rising vote. A copy was ordered engrossed and presented to him. He retains his membership and hopes to for many years to come. We all wish him success in his new field. E. R.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Field Day at Marblehead.

Warm and summer-like weather favored the club outing to W. W. Rawson & Co.'s dahlia farms at Marblehead on Saturday, September 21. Two well loaded special cars left the North Terminal Station at 12.44, carrying over 100 club members, their wives and friends. On arrival, the party, which had been largely increased, at once proceeded to the dahlia grounds, where a first-class luncheon was served and very much enjoyed by the large company.

An inspection of the extensive dahlia grounds was then in order, and nearly three hours were spent in closely scrutinizing the extensive collection of hundreds of varieties. The cactus and decorative section were most largely represented and came in for the greatest admiration, but the peony, collarette, single, Twentieth Century, show and fancy classes were all very much in evidence.

Some of the sportive spirits indulged in a baseball game after inspecting the flowers, the married men proving too much for the singles on this occasion. Before separating, President T. H. Westwood, in a few suitable remarks, voiced the thanks of the company for an afternoon's delightful entertainment. Maurice Fuld suitably responded on behalf of the firm. Regret was expressed at Mr. Rawson's absence, that gentleman having gone to Jamestown to fill a lecture engagement. Boston was safely reached on the return journey at 7 o'clock after a very pleasant and profitable outing.

ILLINOIS STATE FLORISTS' ASSOCIATION.

The Illinois State Florists' Association will hold their 3rd annual convention in the city of Springfield on February next, 1908. This will be the greatest convention of the florist and kindred trades that has ever been held in the State of Illinois. Already many inquiries have been made regarding space for trade exhibits. The undersigned committee appointed by the Springfield Florists' Club to look up the matter of exhibits take this opportunity to issue this circular to all interested, and ask them to send in their wants. We can give you all the space you want, whether it be for advertising, banners to hang up, or space on the floor for any and all kinds of exhibits belonging to the trade, and ask your hearty co-operation in making this convention a record breaker.

Springfield, the capital city of Illinois, is located in the center of the

state and will be visited by all florists of this as well as many other states. Springfield is also famous for its horticultural products, no less than eighteen (18) firms being engaged in the growing of cut flowers, plants and vegetables. This being the center of the state, its easy access by steam and interurban railroads assures us of a great many of the trade being with us, thus showing what a factor this convention will be from an advertising point of view.

Hotel accommodations are unexcelled; plenty of room for all at moderate prices. The exhibition and convention will be in the State Armory, with a floor space of thirty thousand (30,000) square feet, with a large gallery surrounding the entire building, fully heated, and the exhibitors need have no fear in sending their choicest stock of cut flowers and plants. Exhibits coming from a distance, and exhibitors not being able to accompany them, will be well taken care of by the local club. We especially urge upon all supply men and dealers in greenhouse building and heating material to let us know at once what space they will want, so that we can arrange exhibits to the best advantage. We will be able to give good space at reasonable rates, which will be furnished on application.

Now, florists, this is your opportunity; come and be with us; we will give you a good time. Springfield, the home of Lincoln, will give you a hearty welcome, and you will all say that it is good to be one of us.

Signed by the Committee,

DAVID WORTH.
FRANK FRIEDLY.
ALBERT HEY.

Address all communications to the secretary of the Springfield Florists' Club, George W. Jack, 217 South 5th St., Springfield, Ill.

NEW ORLEANS HORTICULTURAL SOCIETY.

The regular meeting of this society was held at the residence of P. A. Chopin, the officers and 25 members present. A lengthy discussion on the advisability of hiring a large hall for a chrysanthemum show when very few potted chrysanthemums would be ready for exhibition, resulted in H. A. Papworth's motion that the plans already made be abandoned, the committee thanked and discharged, which was passed. C. W. Eichling, however, wished to go on record as not being in favor of giving up the show, and was the only one holding out for it. To have a show in November in a hall or store on Canal street, only members exhibiting, was an idea advanced by Paul Abele, which met with unanimous approval, and P. A. Chopin, chairman, H. A. Despommier and Paul Abele were appointed a committee to arrange for a chrysanthemum and flower show. H. A. Papworth tendered his store and it will probably be accepted; the show to continue several days.

On motion, the society unanimously indorsed the projected Panama Bi-oceanic Exposition, to be held in New Orleans in 1915. It is intended that the society get in close touch with the prominent workers and give every aid towards making the New Orleans Exposition renowned for its beauty of



THE PHILADELPHIA PARTY AT R. VINCENT JR.'S, SEPT. 17TH

landscape, the trees, hedges and gardening being started in time to make a decent show when the exposition first opens.

Pres. Eble gave the members an interesting account of his trip to the S. A. F. convention at Philadelphia, where he received an honorable mention for his new variety of fern. He said that New Orleans should have the next convention if possible since the local society had become so much stronger. He was sure that the society could make the expense less than at Philadelphia. Chicago's society had promised their support and it would be

a most profitable meeting for northern visitors.

H. A. Despommier exhibited a three months' old plant of *quisqualis* rooted from a cutting and growing perfectly. On adjournment, the next meeting being set for October 17 at the home of Pres. Eble, elaborate refreshments were served by Mr. and Mrs. P. A. Chopin, which were highly appreciated by those present.

C. R. PANTER, Sec'y.

DETROIT FLORIST CLUB.

The last meeting of the Florist Club was very well attended, special interest being caused by the election of the following officers: pres., J. E. Scribner; vice-pres., Thos. Brown; sec'y, J. F. Sullivan; treas., Walter Taepke; librarian, A. Sylvester.

CLUB AND SOCIETY NOTES.

W. E. McKissick will speak before the Philadelphia Florists' Club on Tuesday evening, October 1.

The Connecticut Horticultural Society held its bi-monthly meeting at Hartford on September 20 and plans for the dahlia exhibition on the 25th were completed. J. F. Huss spoke on hardy perennials.

The Springfield Florists' Club (O.) will place in office at their October meeting the following: President, G. H. Mellen; vice-president, C. W. Schmidt; secretary, G. D. Leedle; treasurer, Leman Bradford. The year just passed has shown a healthy growth.

The florists of Indianapolis, Ind., organized on September 12 with forty-seven charter members. The officers are: President, Sydney Smith; vice-president, Fred Huckleide; secretary, Earl Sellers; treasurer, E. Reiman; sergeant-at-arms, George Wiegand. The club will meet the second Wednesday of each month.

Hector Golin of Merrimac has taken a position in a florist establishment in So. Chelmsford, Mass.



JOHN COCK, BALTIMORE
And his new pink unnamed seedling

THE EXHIBITION SEASON

RECENT SHOWS.

Newport Horticultural Society.

On Tuesday, Wednesday and Thursday, September 17, 18 and 19, the best exhibition of plants, flowers, fruit and vegetables ever seen in Newport was given by the Newport Horticultural Society. The entries were unusually numerous and the exhibits of uniform good quality.

Dahlias were exceptionally fine and of varied character. There were many large exhibits by out of town growers, including W. W. Rawson, W. D. Hathaway, Mrs. H. A. Jahn, Arthur B. Wordell, Wm. F. Turner, The Star Dahlia Gardens, Wm. H. Richardson and H. F. Burt, all of whom met with more or less success. Sisson & Thurston of Newport took first in the class for commercial growers. James Robertson, Newport, was the most successful exhibitor of dahlias in all other classes. Wm. H. Richardson of New Bedford was awarded the society's silver medal for seedling cactus dahlia, which was generally conceded to be the best thing of recent introduction; the bronze medal went to Mrs. T. C. Richardson. A. H. Wingett of Lenox was awarded a first-class certificate of merit for his splendid new decorative dahlia Charles Lanier. James J. Sullivan and Paul Volquardson, certificate of merit for seedlings.

B. Hammond Tracy, Wenham, Mass., won the society's silver medal for a superb collection of gladioli. First-class certificates of merit were awarded to Henry A. Dreer for aquatics and ferns *Nephrolepis Amerpohli* and *N. Todeoides*; R. & J. Farquhar & Co., Boston, for *Lilium auratum* and *L. superbum*; John Lewis Childs, for gladioli; James Garthly, for collection of plants; F. E. Conine Nursery Co., for display of roses; Miss Alice Keteltas for a splendid specimen orange tree loaded with fruit; Mrs. Andrews, for miniature rock garden. W. A. Manda received a certificate for *Dracaena Mandanli* and a gratuity for collection of plants.

Fruit and vegetables, especially the latter, were of unusual excellence. The silver cup offered by Henry A. Dreer for the best collection of vegetables, to be won twice, was awarded to Wm. B. Greene.

In the class for best centerpieces made exclusively of dahlias Gibson Bros., won the first prize. Oscar Schultz was first in the best fancy basket made of dahlias. For the best fancy basket other than dahlias the first prize went to Mrs. William A. Astor with basket of American Beauties.

Other awards were as follows:

Plants.

Group of palms, ferns and flowering plants, tastefully arranged within a space of 100 square feet—1st, Mrs. Robert Goelet, Colin Robertson gardener; 2d, Mrs. William Astor, James Boyd gardener; 3d, Oscar Schultz.

Group of palms, ferns and foliage plants, tastefully arranged within a space of 100 square feet—1st, Oscar Schultz; 2d, Mrs. Robert Goelet.

Group of ferns, palms and foliage

plants, tastefully arranged within a space of 50 square feet—1st, Mrs. William Astor.

Table of decorative foliage plants, each plant to be serviceable for a table, staged on table 3 by 6 feet—1st, Mrs. C. M. Bell, David McIntosh gardener; 2d, Perry Belmont, John Marshall gardener; 3d, Mrs. Robert Goelet.

Group of ferns, tastefully arranged within a space of 50 square feet—1st, Oscar Schultz; 2d, E. J. Berwind, Bruce Butterson gardener.

Specimen areca, in pot or tub not exceeding 16 inches in diameter—1st, Mrs. Robert Goelet.

Specimen kentia, in pot or tub not exceeding 16 inches—1st, Mrs. William Astor; 2d, Mrs. Robert Goelet; 3d, Mrs. T. O. Richardson, James Robertson gardener.

Specimen any other species palm, in pot or tub not exceeding 16 inches—1st, Mrs. Robert Goelet.

Specimen palm, any species, without restrictions on size of pot or tub—1st, Mrs. Robert Goelet; 2d, E. J. Berwind; 3d, Oscar Schultz.

Specimen cycas—1st, Mrs. T. O. Richardson.

Specimen fern—1st, H. D. Auchincloss, John Mahan gardener; 2d, Mrs. William Astor; 3d, Mrs. Robert Goelet.

Six dracaenas, not less than three varieties in pots not exceeding 8 inches—1st, Mrs. William Astor.

Six crotons, not less than three varieties, in pots not exceeding 8 inches—1st, Mrs. Robert Goelet; 2d, Mrs. C. M. Bell.

Six ferns, not less than three varieties—1st, E. J. Berwind.

Six Rex begonias, not less than three varieties, in pots not exceeding 8 inches—1st, Mrs. William Astor.

Specimen pandanus, pot not exceeding 8 inches—1st, Mrs. William Astor.

Basket, pan or dish of ferns, receptacle not over 15 inches in diameter—1st, Perry Belmont; 2d, Mrs. William Astor.

Basket, pan or dish of foliage plants, receptacle not over 15 inches in diameter—1st, Perry Belmont; 2d, Mrs. William Astor.

Miniature flower garden, exhibited by Newport private gardener within a space of 32 square feet—1st, Hugh Williamson; 2d, James Williamson.

Cut Flowers.

Twenty-five gardenia blooms—1st, Mrs. William Astor.

Fifty carnation blooms—1st, Mrs. Robert Goelet; 2d, Mrs. William Astor.

Twelve American Beauty roses—1st, Perry Belmont; 2d, Mrs. William Astor.

Vase of 25 tea or hybrid roses—1st, Perry Belmont; 2d, H. D. Auchincloss.

Collection of herbaceous perennial blooms, named varieties—1st, H. D. Auchincloss; second, Joseph Gibson; 3d, Oakland Farm, A. G. Vanderbilt, Alex. Adam, gardener.

Collection of annuals, named varieties—1st Joseph Gibson; 2d, Oakland Farm; 3d, A. D. Auchincloss.

Fruits.

Two bunches white grapes—1st, H. D. Auchincloss.

Two bunches black grapes—1st, H. D. Auchincloss.

One bunch white grapes—1st, E. J. Berwind; 2d, H. D. Auchincloss.

One bunch black grapes—1st, H. D. Auchincloss; 2d, E. J. Berwind.

Six nectarines—1st, H. D. Auchincloss; 2d, E. J. Berwind; 3d, Mrs. William Astor.

Six peaches—1st, Mrs. William Astor.

Six peaches, grown outdoors—1st, E. J. Berwind; 2d, Mrs. John E. Harrington.

One melon—1st, H. D. Auchincloss; 2d, Samuel Chambers; 3d, Miss Alice Keteltas, W. J. Matson gardener.

Three dishes of apples—1st, Miss Susie E. Gibson.

Six dishes of pears—1st, Mr. William B. Greene, Samuel Speers gardener.

Three dishes of pears—1st, Mrs. John E. Harrington; 2d, William B. Greene.

Dish of blackberries—1st, William B. Greene; 2d, Mrs. J. E. Harrington.

Vegetables.

Peck of potatoes—1st, James Elliott; 2d, Mrs. T. O. Richardson; 3d, H. D. Auchincloss.

Twelve tomatoes—1st, Oakland Farm; 2d, Mrs. William Astor; 3d, Mrs. T. O. Richardson.

Six heads of celery—1st, H. D. Auchincloss; 2d, Mrs. T. O. Richardson.

Twelve onions—1st, Mrs. T. O. Richardson; 2d, Oakland Farm; 3d, H. D. Auchincloss.

Three heads of cabbage—1st, H. D. Auchincloss.

Three heads of cauliflower—1st, Oakland Farm.

Collection of peppers—1st, Joseph Gibson.

Best collection of vegetables—1st, Oakland Farm; 2d, H. D. Auchincloss; 3d, Mrs. Robert Goelet.

The judges were Alex. MacLellan, John T. Allan and D. J. Coughlin.

Greater interest was taken in this show than had been anticipated with the gratifying result that the receipts from admission fees are largely in excess of any previous year.

London Dahlia Union.

This society founded only six years ago held its annual exhibition in the glass corridor and conservatory of the Royal Botanic Gardens, Regents' park, on the 12th September last. The most favorable circumstances attended the show for there was keen competition in most of the classes. The quality was of a high order of merit in almost everything staged.

The schedule comprised 27 classes in all, three and four prizes being allotted in most of the classes.

A detailed report would be of little interest to American readers and the most we can do is briefly to deal with essentials. T. S. Ware and Son had a gold medal for a fine display arranged in a very artistic manner. Cut blooms of every section were arranged in high bamboo supports at the back while vases contained those in front. *Isoplepis gracilis*, bamboos and other greenery enlivened the display by the graceful way in which they were interspersed among the cut blooms. Cactus dahlias of special note were

Faunus, Whirlwind, Mrs. McMillan, Primrose, Cynthia, Hamlet, Caradoc, etc. Decoratives and peony flowered included some noble blooms of Germania, King Leopold, Bloom of Baarn, Queen Wilhelmina and Souvenir de Gustave Dowzon, while among the old show flowers, Peacock, Mont Blanc, Diadem Merlin, Mrs. Langtry and others were none the less conspicuous.

The exhibit of J. T. West, who also received a gold medal, was another fine example of effective arrangement. Every section was well represented but the pompons staged appealed to me in a very special way, Bacchus, Snowdrop, Violet, Midget, Daisy, Nerissa, Ideal, Emily Hopper and Sunshine being delightful little floral gems.

Hobbies Lim'd staged roses and dahlias in grand form and they too were awarded a gold medal for a charming group of no little artistic merit. Cactus varieties of note were Hyacinth, Wm. Marshall, Hamlet, Daisy Easton, Amos Perry, Nelson, Charm. They also had a large display of the peony flowered varieties.

In the competitive classes there were numerous entries. For 12 cactus distinct in bunches of 6 blooms each, Stredwick & Son came in first. H. Shoemith, John Walker and Burrell & Co., followed in the order named. Blooms in this class specially noticed were Uranus, Ivernina, Dr. G. E. Gray, Snowdrift, Buttercup, Flame, Conrad, Celia, Lustre, Eureka, Faunus, Premier. Classes for 24 blooms cactus and 12's also brought forth a good show, the principal prize winners being Stredwick, Burrell & Co., Keynes, Williams & Co., John Walker, Mortimer, Seale and Baxter. Here we noted the following: Pilot, Clincher, Nelson, Ivanhoe, Conrad, Imperial, Primrose, White Lady, Wm. Marshall, Hyacinth. Classes 4 and 5 for 24 and 12 cut blossoms of the show dahlia produced some excellent results of the culture of these grand old flowers. The prize winners here were John Walker, Chas. Turner, Keynes, Williams & Co., Mortimer, Cheal & Sons, Seale, Tranter and S. Cooper. Fine blooms of Purple Prince, Blush Gem, Standard Harbinger, John Walker, Golden Gem Chieftain, W. Keith, Mrs. Langtry, Mrs. Gladstone, Dr. Keynes and others were exhibited in the winning stands.

The class for 3 vases of cactus varieties brought forth some fine lots. John Walker, Seale, Keynes, Williams & Co., and Cheal & Sons, were the prize takers in order named.

For 12 pompons competition was again keen amongst exhibitors already named in other classes, Hecla, Mercia Bacchus, Cyril, Florence, Ideal, Little Mary, Doris, Barbara, Jessica, Queen of Whites being all excellent samples.

Singles were very pretty and freely shown in the various classes. Some of them are delightfully colored and most perfect in form. Among the prize winning stands we admired Colombine, Rosebank Scarlet, Snowdrop, Hector, Kilby, Fuji San, Stromboli, Aurora Formosa, Leslie Seale, Princess of Wales, Mavourneen, Mark Twain. Many other exhibits in other classes were staged especially in the amateur section. Floral art was encouraged by prizes for tastefully arranged vases in which the blooms were mingled with autumn foliage and grasses.

The judges awarded first class certificates to Stredwick & Son for cactus dahlias, C. E. Wilkins, Rev. A. Bridge, and Mercury. H. Shoemith for cactus dahlia, Flame, a fiery reddish crimson of intense brilliancy.

Cheal & Sons for single dahlia, Peggy, Hildegard, a pompon of a very pretty pale lilac mauve, and Brilliant—a single variety of rich reddish crimson, with a yellow centre.

A silver medal was awarded to W. Stephens for a display of 12 cut blooms of cactus dahlia, Wm. Marshall.

Altogether the committee may well be satisfied with their show for 1907, the quality being certainly up to that of the N. D. S. if not even better.

Miscellaneous groups were a decided feature of the show and contributed very materially to interest the numerous visitors. Mr. A. L. Gwillim staged a fine table 36 feet long of begonias, single and double, in great variety, for which he received a gold medal. J. Burrell & Co., had a like award for a grand display of gladioli. Spooner & Sons staged fruit, having a nice collection of which we can only mention in apples Cardinal, Lord Derby, Lord Suffield, Keswick Codlin, Cox's orange Pippin, Worcester Pearmain, Brabant Bellefleur; in pears, Clapp's Favorite, Beason, Dr. Jules Guyot; in plums, Victoria, Pond's seedling and Cox's Emperor.

C. HARMAN PAYNE.

New York State Fair.

At the State Fair held at Syracuse twenty-four first and seven second prizes were captured by P. R. Quinlan & Co. The cash prize of \$350 for display of fruit was won by the Western New York Horticultural Society, whose exhibit included 221 varieties of apples, 131 of pears, 51 of plums, 73 of grapes. In the street parade on Thursday evening the float of P. R. Quinlan & Co. was also awarded the prize in its division.

Michigan State Fair.

The floral exhibits at the Michigan State Fair at Grand Rapids on the week of September 9 exceeded in excellence everything before attempted. The prizes were divided between the Grand Rapids Floral Co., Crabb & Hunter and Charles Chadwick. W. Cukerski was the judge.

Floral Society of Victor, N. Y.

The fifth annual festival given by the Floral Society of Victor was held on September 12 and 13. One hundred and sixty-seven entries were made in the thirty-nine classes, asters and gladioli predominating. M. F. Pierson of Stanley served as judge.

Chestnut Hill Horticultural Association.

The Chestnut Hill Horticultural Association (Pa.) held an exhibition on September 10. Chas. Bustard, James Bell and Frank Gould won the prizes for best displays of dahlias; W. Schneider and J. Little for asters and W. Vandervere for ferns.

Indiana State Fair.

The floral exhibits at the Indiana State Fair, September 9 to 13th, proved quite a success. Good displays were brought out in cut flowers, plants and floral designs. The awards were pretty evenly divided among the exhibitors.

Union Agricultural Society.

At the sixty-ninth annual fair of the Union Agricultural Society, held at Ellington, Conn., on September 18, the exhibit from the North End Nurseries of Chester F. Brainard, Thompsonville, attracted much attention.

Worcester County Horticultural Society.

At the exhibit on September 19 in Horticultural Hall, Worcester, Mass., a display of gloxinias by E. W. Breed was an interesting feature.

COMING SHOWS.

St. Louis Horticultural Society.

The executive committee of this society met on last Thursday afternoon at Sanders' Nursery to formulate plans for the coming fall flower show. The president being absent, Harry Young presided.

The show this year will be held in the new hall of the United Railways Co., which is in course of erection, and has been offered to the society free of rent. The floor space is 100 feet square. The committee decided that the show should open on the morning of November 12 and close November 15, lasting four days. The Henry Shaw prizes, including the Henry Shaw medal, will again be offered. These alone are valued at \$500. The complete prize list is promised by the end of next month. At the close of the meeting the committee present consisting of Harry Young, Otto Koenig, F. H. Meinhardt, Theo Miller, F. C. Weber, A. Jablonsky, John Steidle, Alex. Walbart, and C. Nicholson, together with Mrs. Koenig, Mrs. Miller and Miss Meinhardt were invited by Mr. and Mrs. Sanders to sit down to a lunch which was much enjoyed by all present.

Beginning with next month the committee will meet weekly until after the show.

Marin County Horticultural Society.

The prize list of the first annual flower show of the Marin County Horticultural Society to be held at San Rafael, California, October 26, offers many valuable cups and cash prizes. T. P. Redmayne, San Rafael, Calif., is secretary of the society.

Alabama State Fair.

The florists have secured a large space at the State Fair to be held in Birmingham October 8-16. Table decorations and bridal bouquets are among the special features on the extensive prize list.

Mississippi State Fair.

A chrysanthemum show will be a feature of the State Fair at Jackson, Miss., on November 8 and 9. Twenty-three classes are scheduled and the first prize is valued at \$25.

Notes.

The date of the fall exhibition of the Horticultural Society of Chicago has been changed to November 6-12.

The Massachusetts Horticultural Society will hold their annual exhibition of fruits and vegetables on October 10 and 11. The preliminary schedule of prizes for January, March and May, 1908, has just been issued.

Seed Trade

The warm weather of the past week has been of great benefit to corn and, in fact, all late crops, but just how much of a crop corn will prove to be can only be conjectured. No definite news has come to hand during the past fortnight concerning crops, but no doubt something will be known soon.

There will be onion sets enough in all probability, and the quality promises to be better than last year. It is estimated that the crop will be about 75 per cent. of an average. The crop of Kentucky Blue Grass seed, estimated at over one million bushels (practically a two years' supply), has again been cornered. This time the "Trust Busting" farmers of Kentucky have helped the scheme along. Members of the Society of Equity combined to hold the seed for a certain price, and they got it. Such is the power of organization.

By the way, this Society of Equity has become a great power in the West, and bids fair to become an influential factor in fixing the prices of farm products. In fact, it is such already. It is claimed by its members that they are responsible for the present high prices of grain to a considerable extent. Dollar wheat, sixty-cent corn and fifty-cent oats is the slogan of the Society of Equity, and the writer has information that a movement is afoot to hold back these crops until they can realize the prices named. This possibly accounts in some measure for the comparatively small receipts at the great grain centers, and which resulted the past week in a decrease of nearly 1,500,000 bushels in the visible wheat supply, whereas at this time of year the normal condition should have shown an increase of about this quantity.

Perhaps few of our readers are aware that our erstwhile friend, J. A. Everitt of Indianapolis, is the founder and present very efficient head of the Society of Equity. "Uptodate Farming and Gardening," of which Mr. Everitt is editor, is the organ of the Society of Equity, and has a large circulation.

As a further indication that organization is the order of the day, it may be said that a movement is on foot to organize a "National Society of Truck Growers." If this is successful, it is likely to be in time only an adjunct of the Society of Equity.

Late peas have sold in Buffalo as high as \$2.25 per bushel, and 160 bushels have been picked from a sowing of two bushels of seed. Pretty good business is farming; at least, truck farming.

Reports of damage to the bean crop are in circulation, but how serious has not yet developed. We shall have more reliable information in a week or two.

Unfavorable reports of the potato crop are coming from many sections and if they prove true the "Murphys"

may be among the luxuries in the near future.

Mr. Alfred Emerich, representing Messrs. Vilmorin, Andrieux & Co., Paris, France, will reach New York about September 28th, and will pay his usual visit to their American customers in the seed trade. All communications for Mr. Emerich should be addressed care of H. Frank Darrow, 26 Barclay street, New York.

CONRAD APPEL'S REPORT ON THE 1907 CROP OF EUROPEAN GRASS AND CLOVER SEEDS.

Regarding the Natural Grass Seeds, I beg to mention that the homegrown sorts have much suffered from the unsettled and unfavorable weather in May and June, and therefore we will this season see greatly varying qualities, bright colors will be scarce and in demand.

Of *Agrostis stolonifera* (Marsh Bent Grass homegrown) a shorter yield is expected than last fall, and high prices are offered to the owners already though harvesting will not commence before the middle of this month.

Aira caespitosa (Tufted Hair Grass) brought a smaller result, too, and higher prices than last year must be paid for raw seed.

The yield of *Aira flexuosa* (Yellowish Oat Grass of the trade) is about the same as last year, the quality seems to be better and heavier. Unreasonable prices have been paid by some dealers and therefore, prices will rule higher this season.

Alopecurus pratensis (Meadow Fox-tail) turned out a larger crop than last year. The samples I have already received show a satisfactory quality and contain less larvae than the year before. As you know, last season the owners asked very high prices for the raw seed, and therefore the demand for cleaned seed was not very animated. In spite of the bigger new crop the owners are now quoting much higher figures, having made a combine to keep the prices. Under these circumstances it seems to be very risky to conclude transactions at the present moment, basing upon prices which rule from 90 to 95.—Marks per cwt. of German seaport.—Considering the difficult cleaning of this sort and taking into account the loss in chaff, you will perhaps on the strength of the above prices of the raw seed be able to form yourselves an approximate idea of the prices which have to be quoted this season for high grade cleaned Meadow Foxtail. It is therefore advisable to wait with purchases until the situation of the market is more settled.

Anthoxanthum odoratum (Sweet scented Vernal, true) yielded a particularly short crop and higher prices may be expected for good nice lots. Also *Anthoxanthum puelli* (Sweet Scented Vernal, puelli) yielded a smaller quantity than last fall and will be quoted at a higher rate.

Avena elatior (Tall Oat Grass) brought an average crop in Austria, but the quality cannot compete with the French product. As to the latter correct informations cannot yet be given, as the new harvest is somewhat delayed by rainy weather. Reports announce a smaller crop but excellent

qualities. Firm offers will not come on the market before end of this month.

Avena flavescens (Yellowish Oat Grass, true) I cannot yet give a reliable report, this sort being not yet harvested. The same refers to *Bromus mollis* (Brome Grass) and *Bromus pratensis* (Meadow Brome Grass), whilst *Bromus inermis* (Awnless Brome Grass) is reported to bring a good yield with satisfactory qualities.

Cynosurus cristatus (Crested Dogstail) had suffered by heavy rains during its development and maturity in some principal centres of production, therefore darker colors will probably be prevalent, and bright lots will surely be in strong demand.

Dactylis glomerata (Cocksfoot). The crop in Germany, Austria and France was only limited and higher prices than last year were asked for. The yield in New Zealand is also much below an average crop and especially for bright lots much higher prices than in previous years had to be granted. The demand is very quiet now owing to these high prices, in the end they will have to be granted, as the quantity harvested is not sufficient for the usual requirements.

Festuca arundinacea, *elatior* (Tall Fescue, true). The genuine Rhenish Seed which is only grown in a small district in this neighborhood, brought this season one-third less than last fall, and in consequence higher prices had to be paid to the growers. I was able to obtain the bigger part of the new crop and am already occupied with the cleaning of my lots. The new seed is of an excellent quality, and the germination is very satisfactory, too. The prices for well cleaned seed are ruling favorably considering the shortness of the crop.

Festuca duriuscula, *ovina* (Hard and Sheep's Fescue). At the beginning the outlook entitled to the best expectations, and the owners had the best hopes for a rich harvest. But owing to the continued rainy weather the color of this species has suffered, and the seed is darker than last year's. Bright lots are very rare, and besides, there is a great loss in cleaning, as the new crop contains much light seed and chaff, so that my fancy and superfine qualities will command higher prices than last season.

Festuca ovina angustifolia (Fine-leaved Fescue) yielded an extraordinarily short crop, and consequently was only obtainable at very high prices. The lots are now coming in and the quality turns out satisfactory. It is not yet possible to say anything definite regarding the germinative power and the results of the cleaning of the new crop; undoubtedly high prices have to be charged for well cleaned qualities.

Festuca heterophylla (Var. leaved Fescue, true) and *Festuca rubra* (Red Fescue, true) which sorts grow in Germany only in limited quantities, yielded about the same as in 1906. N.-Z. Red Fescue is this year quoted at such high figures, that it does not pay for our market.

Holcus lanatus (Soft Grass, homegrown). It is still too early to give any information on the new crop.

Lolium italicum (Italian Ryegrass). According to reports from Great Britain this sort is now in harvest, and a

fair average crop is expected, the color will perhaps be a little darker than last year. From France a good crop is reported, and samples already to hand show satisfactory qualities. The seed will be obtainable at about the same prices as last season.

The harvest of *Lolium perenne* (Perennial Ryegrass) is also late this year, and most of the samples represent darker qualities. Heavy lots of more than 26 lbs. bushel-weight will be scarce this season and in strong demand. Prices rule somewhat higher than in 1906.

Phalaris arundinacea (Reed-like Canary Grass) is gathered this year in very limited quantities only, and higher prices had to be granted, so that good quality will be in demand and not obtainable cheaply.

Phleum pratense (Timothy). Will bring a medium yield in Germany, the weather of the next few weeks may influence the crop, which is still in the fields.

Poa nemoralis (Wood Meadow Grass) yielded much less than last fall. The heavy demand has caused a steady upward tendency of the prices for the raw seed, and at present the latter show such figures as never before. By my good relations with the most reliable sources I was able to obtain the bigger part of the new crop and most of the best lots. On account of the high prices for the raw seed it is a matter of course that really good well-cleaned qualities will be offered at much higher figures than last season.

Poa trivialis (Rough Stalked Meadow Grass). According to reports from the North this sort yields a shorter crop than last year, and it is still too early to say anything definite to the quality of the new seed, which is not yet harvested.

Clover Seeds, *Trifolium pratense* (Red Clover). Regarding the new crop in Germany and Austria, the season of the year is not far enough advanced to form at present an idea of the outlook.

Trifolium repens (White Clover) added every year to the existing stocks a larger or smaller crop, and this year, too, a medium crop is expected so that it is not necessary to hurry with covering the requirements. Of course particularly bright seed will be rare and in strong demand at good prices, but the stock of average qualities will be quite sufficient for the wants and obtainable at moderate figures.

Trifolium hybridum (Alsike). Regarding our homegrown products it is still too early to say anything definite.

The trade in *Trifolium incarnatum* (Crimson Clover) was this season very precarious and unsatisfactory. Austria started with fair prices and good qualities as compared with French offers, which represent mostly discolored qualities, and besides, at first high prices were quoted for this sort. France has yielded a good crop, but having no sales prices went down

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steadily, so that at present Crimson Clover is on the market at very low prices, offering a fair object for speculation.

Lotus corniculatus (Coarse grained Birdsfoot Trefoil) had a fair average crop and is offered at cheaper prices than last year, the qualities are different, most lots containing a great deal of ribgrass (Plantago). Lotus villosus (Small grained Birdsfoot Trefoil) is not yet harvested, the result is estimated to be smaller than last fall, samples and offers are not yet to hand.

Medicago Impulina (Yellow Trefoil) yielded to all appearance a satisfactory result and will be obtainable at about last year's prices.

Medicago sativa (Alfalfa or Lucerne) Italy reports a short crop and good qualities, whilst in France Lucerne will yield a good average crop, and Lucerne of Provence of good quality will probably be quoted a little lower than 1906.

About the new crop of Anthyllis vulneraria (Kidney Vetch) I have not yet received any information and therefore cannot give a report on it for the moment.

In Hedysarum onobrychis (Sainfoin, one cut) the offers are now to hand, and samples mostly show dark seed, so that bright lots will be in demand, the prices rule somewhat higher than last season. Hedysarum bifera (Sainfoin, two cuts) gave a medium yield, and the qualities are reported to be satisfactory.

Regarding the Agricultural Seeds, viz. Ornithopus sativa (Serradella), Lupinus luteus (Yellow Lupins), Vicia sativa (Spring Vetches), Vicia villosa (Sand or Winter Vetches), Sinapis alba (Mustard) Spargula maxima (Giant Spurry), Spargula arvensis (Common Spurry) a report cannot yet be given, as the crops are not yet harvested.

FORMOSA LONGIFLORUMS.

Since the Bermuda lilies first showed signs of disease, forcers have been looking anxiously for a healthy lily that could take their place. To a considerable extent this was done by the Japan-grown longiflorums, which have, however, the one great drawback that they could not be forced as early as the Bermuda lilies, owing to the fact that they ripened later in Japan and could not be brought to the American market early enough.

A New York importing house seems now to have overcome this difficulty with the Formosa longiflorums, a small trial shipment of which last year turned out entirely satisfactory as far as earliness was concerned, not a single plant showing any trace of disease, and it is confidently expected that this lily will take the place of the Bermuda bulbs in future. This season a few hundred cases of these Formosa lilies arrived in splendid condition. Growers are giving them a thorough trial and large orders are promised if they come up to expectation. The bulbs were dug, thoroughly ripened, the first part of June—earlier or about the same time that Harrisii are taken up in Bermuda—and the shipment reached the Pacific coast on the 20th of July, but unfortunately was delayed overland. Under ordinary circumstances it should have reached New York the first part of August.

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Lamartine. (Tall). Very bright magenta, with a large white centre; very effective.....	6 00	50 00
Lord Raleigh. (Dwarf). Deep reddish violet, distinct	6 00	50 00
Le Mahdi. (Tall). Deep reddish violet, with darker eye	6 00	50 00
Mrs. Jenkins. (Tall). An early-flowering pure white, forming an immense panicle; one of the best	10 00	90 00
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Frau Dora Ungeller. (Tall). Very rich, deep rose; a strong tree-flowering late variety.	
Gustav Nadaud. (Tall). Ground color white, delicately suffused with reddish violet; Tyrian rose eye.	
Graff Von Ungerer. (Tall). Large flower; white suffused throughout with rosy lilac and dark crimson centre.	
H. O. Wigert. (Tall). Pure white, with crimson-carmine eye.	
Henry Murger. (Tall). White, with crimson-carmine centre.	
Inspector Peiker. (Tall). Purplish mauve, washed with white.	
Jeanne D'Arc. (Tall). A late-flowering pure white.	
La Vague. (Medium). Pure mauve with aniline-red eye; one of the best Phlox in our collection.	
Mozart. (Tall). Ground color white, suffused with salmon; aniline-red eye.	
Mme. Mari Kuppenheim (Dwarf). A fine, late, pure white.	
Martinique. (Tall). Tender rose with brighter eye.	
Mme. Pape Carpentier (Dwarf). Very early pure white; tube of corolla tinted with pink.	
Otto Thalacker. (Dwarf). Tyrian rose with deep red eye and light halo.	
Obergartner Wittig. (Medium). Bright magenta, with crimson-carmine eye; large flower and truss; the best of its type.	
Pantheon. (Tall). Bright carmine rose.	
Pecheur D'Islande. (Tall). Crimson red, suffused with cochineal-red and carmine-red eye.	
Pacha. (Dwarf). Deep rose pink suffused with solferino-red and carmine-purple eye.	
Professor Schlicman. (Tall). Pure mauve with crimson-carmine eye; an effective late flowering variety.	
Papillon. (Medium). Bright violet purple, peculiarly marked with white.	
Philibert Audenbrand. (Tall). Pure white with carmine centre; large flower.	
R. P. Struthers. (Tall). Rosy carmine with claret-red eye; one of the best Phlox in cultivation.	
Sun-bine. (Dwarf). Large flower, aniline-red with crimson-red eye and light halo.	
Thebaide. (Dwarf). Carmine lake with brighter shadings and aniline-red eye.	
Von Goethe. (Tall). Tyrian rose, suffused with carmine lake and carmine-red eye.	
Zouave. (Medium). Bright rosy magenta with red centre.	

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Aquillon. (Tall). Bright Tyrian rose with crimson-red eye.	
Andreas Hoffer. (Medium). An early and continuous flowering pure white.	
Bouquet Fleuri. (Dwarf). Pure white with crimson-carmine eye; free-flowering; each branch a perfect bouquet.	
Bridesmaid. (Tall). White, with large crimson-carmine centre.	
Berranger. (Dwarf). Ground color white, delicately suffused with rosy pink and distinct amaranth-red eye.	
Bacchante. (Tall). Tyrian rose with crimson-carmine eye.	
Blanc Nain. (Dwarf). Very dwarf pure white.	
Colibri. (Tall). White, with crimson-carmine centre; very late.	
Champa Elysee. (Medium). A very bright rosy magenta of an effective shade.	
Caran D'Ache. (Dwarf). Geranium-red with old rose shadings and white eye; very effective.	
Cyclon. (Very Dwarf). White, suffused with lilac; aniline-red eye in the form of a star.	
Eclairer. (Tall). Brilliant rosy magenta with large lighter halo; an excellent variety.	
Eugene Danzerville. (Tall). Lilac, shading white towards the edges; large white centre.	
Eclairmonde. (Tall). Lilac marked with white; aniline-red eye.	

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA, PA.

LIBRARY NOTES.

Any of the books mentioned in Mr. Payne's reviews can be supplied at publishers' price from the office of Horticulture.

In my last contribution under this heading, I alluded to the large number of new books on gardening that have recently appeared, but pressure prevented my noticing only a few of those awaiting notice. I now continue a brief review of some of the others which appear to be likely to interest the readers of HORTICULTURE who, as Bostonians, must be presumed to have some interest in horticulture beyond mere cultural details.

After many years' book-collecting, both ancient and modern, I do not remember ever to have known a period when the publishers of new gardening books have been so actively engaged in their production. The competition seems to be of decided advantage, judging by the general improvement in style and get-up of these new-comers.

Wild Flowers in Their Seasons, by F. Edward Hulme (Cassell & Co., London and New York). This is a dainty volume, small octavo in size. The author is a well-known flower painter and writer, and in the volume under notice he deals with the wild flowers of this country according to their season, and in regular succession. There are 80 full-page, nicely colored plates of the most conspicuous and interesting British wild flowers. A general index and an index to botanical names are given, which facilitates reference, and without which such books ought not, as is sometimes the case, to be published.

A Concise Handbook of Garden Annual and Biennial Plants, by C. N. A. Peake (Methuen & Co., London). There is now quite a series of these concise garden handbooks issued by Messrs. Methuen & Co., of which we have already given brief notices in previous contributions. The contents are arranged as in the other books of the series in alphabetical order, comprising name, country of origin, height, synonyms, whether hardy or otherwise, color and description and cultural notes. At the end of the volume, which contains the full-paged process-block figures of flowers referred to, is an exhaustive list of synonyms.

The Book of Rock and Water Gardens, by Charles Thonger (John Lane, London and New York). The series of handbooks of practical gardening issued by John Lane and edited by Harry Roberts now includes 28 volumes on different subjects, and it is not surprising that so popular a subject as rock gardens has been dealt with in this very excellent series. Mr. Thonger divides his book into 12 distinct chapters which are illustrated with twenty-six views. The titles of his chapters may be briefly mentioned to show the scope of the work and are as follows: "Rock and Alpine Gardens," "Rock Garden Construction," "The Garden of Alpines," "The Rock Garden in Spring," "Rock Garden Plants," "Rock Shrubs," "Wild Water Margins," "Small Water Gardens," "Bog and Marsh Gardens," "Lily Tanks," "Water Lilies," "Aquatics and Bog Plants."

Le dahlia, son histoire, ses progres, sa culture by Rivoire pere et fils (Librairie Horticole, Paris). To our friends of the newly-founded New England Dahlia Society anything no doubt relating to their favorite flower will be welcome. The authors of this little treatise are a well-known firm of nurserymen at Lyons, France. The cultural part of course is intended for French growers who certainly have not up to the present acquired the same degree of skill in dahlia culture as we have here in England. A very casual acquaintance with English and French dahlia shows easily demonstrates this fact. It is to be hoped that the publication of this little handbook may help to raise the standard of dahlia culture in France in the same way as the culture of the chrysanthemum has been improved during the past seven years. There is an excellent article by M. R. Gerard, the eminent botanist of Lyons on the subject of the fertilization of the dahlia to which the reader who understands French may be referred. The book is illustrated but compared with the works previously referred to in this column they are poorly executed and more suitable for a nursery catalogue.

Beautiful Gardens: how to make and maintain them by Walter P. Wright. (Cassell & Co., London and New York). The author of this new book is a well known prolific writer of popular gardening books and in his latest work bearing the above title he endeavors to bring the garden and home into the closest possible association. Looking firstly at the work as a mere piece of book making it must be said that "Beautiful Gardens" is turned out in excellent style. The illustrations are numerous and are full paged but we should much have preferred to see them in black and white instead of the peculiar brownish, almost sepia tint, in which they are printed. To go at once to the practical part of the contents to which over 300 pages are devoted, we may mention that he gives us thirty interesting chapters on particular subjects: "A Garden Year," a story of real doings in a real garden takes the reader from January to December in its various monthly operations, and this is followed by a Garden Remembrancer.

To the amateur, who buys a new house in the suburbs of many of our big towns where the builder has merely left a plot of rough uncultivated ground in the rear this book should serve a useful purpose in one of the most difficult problems that the inexperienced have to contend with. Many a man in such circumstances and without a practical guide to help him has laid out money in waste only to regret it when the work has been finally accomplished. With this book in one's hands many unforeseen troubles may be averted.

The Unheated Grenhouse by K. L. Davidson (Country Life, Lim'd, London.) This, like the preceding is a bulky octavo, and the fact of its being published by the Country Life Library is a sufficient guarantee of the high degree of excellence in which the book is got up. The subject treated is one of intense interest to many of the

small amateur gardeners in this country and elsewhere. Without knowing, one would hardly think it possible to undertake so much that is likely to be successful and a source of much pleasure. The author among many other things treats of plants suitable and unsuitable. The Appendix, occupying about 100 pages, contains useful and instructive lists of plants and flowers blooming at various seasons of the year, hardy foliage plants and flowering shrubs, annuals suitable for pot culture, etc. Between 40 and 50 excellent photograph process blocks adorn this very attractive volume.

Les meilleurs fruits au debut du XXe siecle (National Horticultural Society of France, Paris). Pomology is one of those subjects that must be of peculiar interest to a large number of American horticulturists, as it is to many French ones. We remember the admonition given by the Chairman at the Annual Dinner of the Society of French Gardeners in London last January, when he reminded his hearers of the way in which American apples had invaded the markets of France, and are not surprised at the recent issue of this very imposing volume. For some time past the Pomological Committee of the National Horticultural Society of France has been engaged on the compilation of a work that should be practical and up-to-date. As the outcome of the labors of this committee the Society has now for distribution among its members a work numbering over 600 pages, in which are given details of the best 250 fruits suitable for cultivation in France. Like other publications of the Society this work is arranged on a plan that facilitates reference on the part of the reader. The fruits are enumerated in alphabetical order, with name, synonyms, date of introduction when known, description of the tree or plant, and also of the fruit itself. In each case there is an illustration of the fruit in black and white, accompanied by general observations relating thereto. These details, of course, occupy the major portion of the volume, but apart from these there are a brief history of pomology, tables of maturity and the most advisable forms in which to grow the fruits recommended by the Committee. Very full particulars concerning diseases and insect pests with the needful remedies for their extirpation. A copious index concludes the work, the size of which is 11in. x 7in.

Flower Decoration in the House, by Gertrude Jekyll (Country Life Library,

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London). If we except the "Book of Cut Flowers," briefly reviewed in one of our former articles, there has been, practically speaking, little or nothing published for many years in English on the art of floral decoration. French and German authorities, however, have not been unmindful of this important industry, and most of the modern books have been penned by foreign writers. As we have more than once before observed, being published by the Country Life Library, the style and get-up generally are of the very best, the floral illustrations, about 60 in number, being delightful specimens of the most artistic photographic engravings one could possibly wish to see in book illustrations. The contents include outdoor flowers and foliage November to February, March, right through the year to October. Then room and conservatory decoration, vases, dinner tables, wild flowers in the house, come in for a share of her attention. In many cases the receptacles for the flowers are well shown and appropriately chosen, while many of her floral compositions are such as should bring about a change in the tables of some of our exhibitions where persons who consider themselves to be persons of a refined and cultural taste are apt to display their productions.

The Modern Carnation: How to grow and show it by Hayward Mathias and P. Smith (Horticultural Printing Co., Burnley). This is intended as an Amateur's and Exhibitor's guide to the culture of the flower upon which it treats. It is plainly got up and contains a few illustrations explanatory of the text. On the question of "dressing" our authors have something to say that would appeal very strongly to some of our carnation and picotee growers for show of a past generation and with which we are in close accord. The advocates of showing flowers as grown are generally persons who have no idea of what a florist's flower is and to whom any colored rag, if bright enough, at the end of a bit of stem is a flower. Florists' flowers for exhibition are not field flowers like buttercups and daisies but the work of ardent souls who have an idea before them.

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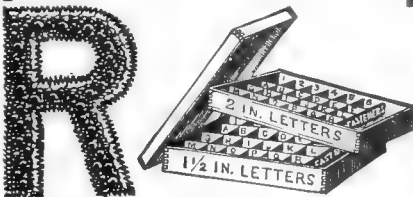
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FLOWER MARKET REPORTS

BOSTON The market condition remains about the same as last week. Small roses are plentiful with a fair demand. American Beauties are coming in in a good condition; also lily of the valley. Carnations are short of stem, and although the stock is good the demand is light. Business on the whole is very quiet.

A severe warm week **BUFFALO** with heavy rain has just passed, but it is somewhat cooler at present. The supply has been heavy on all lines, especially asters and gladioli, though business seems to increase daily. Weddings are as numerous as in June. White roses have been scarce, especially selects; while short Brides were plentiful enough, there was little demand. Beauties were in good supply, but demand a little light; other sorts sold well. Beginning Monday the call was for white roses and lily of the valley, which sold out clean and prices went up a notch. The recent storm has shortened the supply on asters; select stock is scarce. Carnations, especially Enchantress, are coming in more abundantly and find ready sale.

There was quite an improvement in the counter sales notwithstanding the abnormally warm weather during most of last week. A few large fall weddings beside a great number of small ones put a brighter light on the business outlook. Heavy rains the latter part of the week have made asters look gloomy; and with carnations few and short-stemmed, roses will have to bear the first onslaught. Violets are appearing, but very small and bashful.

A slight improvement was felt in this market last week, the Horse Show and one or two other happenings having apparently braced things up a little. A few hot days also had some effect curtailing the rose shipments. Beauties were fairly plentiful but the quality generally was below par. White roses were quite scarce. Dahlias are coming in freely and go fairly well. The average quality is up to standard of other years but it will take some cooler weather to bring out their finer points. Good asters sell but the glut of poor ones is something fearful. Poor asters can't be given away and don't pay freight. Gladioli are nearly over. Cattleyas, oncidiums and dendrobiums are the chief items in the orchid line. Bouvardia is now coming in freely and finds a cordial welcome. Humboldti is not much grown here except as a Christmas crop. Carnations are coming a little better but there are still a great many poor ones coming in. Violets have made their appearance, and while fine as to fragrance are as yet deficient in size. Sweet peas can still be found in spots and quite good, all things considered.

Business is daily improving. All the florists report first class trade the past week. Several

store openings, large funerals and a few weddings collectively, used up quite a quantity of stock. All stock excepting carnations is plentiful. Fine dahlias are in evidence by big majority at the present time. The quality and quantity in all kinds of roses including American Beauty, is quite strong. Tomlinson Hall reports a very dull week. All kinds of greens are very scarce in this section at the present time.

STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York during the two weeks, September 11 to September 24, inclusive, the following plants:

From Holland: C. C. Abel, 57 cs. bulbs; H. F. Darrow, 2 cs. bulbs, 2 cs. plants; Davies, Turner Co., 3 cs. bulbs; J. Dunn, 9 cs. do.; W. Elliott & Sons, 21 cs. do.; F. Hageman & Co., 39 cs. do.; J. W. Hampton, Jr., & Co., 81 cs. do.; Peter Henderson & Co., 9 cs. do.; Hutchison & Murray, 19 cs. plants; McHutchison & Co., 30 tubs trees, 35 cs. plants; C. F. Meyer, 12 tubs trees, 8 cs. bulbs; J. P. Roosa, 19 cs. bulbs; J. Ter Kuile, 48 cs. do.; J. M. Thorburn & Co., 6 cs. do.; Vaughan's Seed Store, 24 cs. do.; R. M. Ward & Co., 130 cs. do.; J. R. Pierson & Co., 2 cs. do.; Sundry Forwarders, 2104 cs. do., 6 cs. plants. Total, 2562 cs. bulbs, 62 cs. plants, 42 tubs of trees.

From France: International Transportation Co., 1 cs. bulbs; Maltus & Ware, 203 cs. do.; Parke, Davies & Co., 19 pgs. plants; Schulz & Ruckgaber, 92 cs. bulbs; C. D. Stone & Co., 3 cs. do.; Vaughan's Seed Store, 16 cs. do.; Wakem & McLaughlin, 46 cs. do.; R. M. Ward & Co., 437 cs. do.; J. M. Thorburn & Co., 13 pgs. seeds; to order, 300 pgs. do.

From London: W. Elliott & Sons, 16 cs. mushroom spawn; H. F. Darrow, 26 cs. seed; Henry & Lee, 162 cs. bulbs; Order, 8 bgs. seed.

From Glasgow: J. M. Thorburn & Co., 21 bgs. grass seed.

Via Southampton: J. Guile, 14 cs. bulbs; R. M. Ward & Co., 14 cs. do.; Forwarder, 1 cs. plants.

Via Gibraltar: Sundry Forwarders, 400 bgs. seed; To order, 85 bgs. do.

From Germany: P. Henderson & Co., 200 bgs. seed; J. M. Thorburn & Co., 18 bgs. do.

Via Pernambuco: Maltus & Ware, 14 boxes plants.

The warm weather of the past two weeks has for the time being interrupted the bulb trade, but the first frost will start the orders with a rush; that is, the retail orders. The wholesale trade has been very heavy ever since the first shipments were received from Holland; in fact, every sign points to the same great sales of the last few seasons—sales that have cleaned up everything in the line of Dutch bulbs several weeks before the final freezing of the ground, resulting in many orders being returned unfilled to belated bulb customers. It is certainly marvelous how the sales of hyacinths, tulips, crocuses and narcissi are increasing every year.

NEWS NOTES.

Visitors in Boston: P. F. Kessler, New York.

M. B. Kingman of Amherst, Mass., has reopened his store for the season.

B. Schroeter of Detroit has his new store front completed. The much larger show windows and general improvements with paint, brush and wallpaper make everything most inviting.

The largest exhibit for years of flowers, fruit and vegetables was made by the Northboro Grange at Marlboro, Mass., on September 18. In spite of the unfavorable season corn averaging 13 1-2 feet in height was displayed. Willis Wheeler, W. W. Warren, Herbert Kendall, J. W. Allen, Mrs. M. S. Wood were in charge of the fair.

The celebration of the fortieth anniversary of the opening of Massachusetts Agricultural College at Amherst to students, October 2-5, will take the form of a conference on rural progress. The program, which covers many phases of work, includes addresses by Dr. A. C. True, Department of Agriculture, Washington, D. C.; Dr. George E. Stone, Amherst; Prof. John Craig, Ithaca, N. Y., and State Forester F. W. Rane, Boston.

Miss Lucy R. Latter, who originated the plan of school gardens in connection with the schools of the London school board, has received a commission from the Government of the Maharaja to institute school gardens in connection with the public school system of Mysore, India. The largest girls' school in Mysore will be placed at her disposal for the introduction of the work and a class of teachers will be instructed by her in order to carry on the work after she returns home. She will be in Mysore six months.

BUSINESS CHANGES.

R. O. Henderson, of Pana, Ill., has taken a lease of the Shaffer greenhouses.

Frank Howard, of Cambridge, Mass., has removed to 21 Boylston street, Boston.

John T. Ingram, of Oyster Bay, N. Y., has purchased the business of the late J. L. Bingham on Tooker avenue.

E. W. Davis has bought the greenhouses of S. B. Ritter at Athens, Ga., and the name of the Athens Floral Co. will be retained.

A. Grasser and J. H. Humphreys, of Joliet, Ill., have purchased the business of the Mt. Sterling Floral Co., Mt. Sterling, Ky., and for the present will carry it on under the same name.

MOVEMENTS OF GARDENERS.

Mr. Nevens, formerly head gardener for J. Martin, Ross Valley, Calif., has resigned and will be succeeded by P. Stahelin.

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	Last Half of Week ending Sept. 21 1907		First Half of Week beginning Sept. 23 1907			Last Half of Week ending Sept. 21 1907		First Half of Week beginning Sept. 23 1907	
Roses					Carnations	.75 to 2.00	.75 to 2.00		
Am. Beauty, fan and sp.	15.00 to 25.00	15.00 to 25.00			Cattleyas	50.00 to 75.00	50.00 to 75.00		
“ extra	10.00 to 12.00	1.00 to 12.00			Lilies	6.00 to 8.00	6.00 to 8.00		
“ No. 1.	6.00 to 10.00	6.00 to 10.00			Lily of the Valley	1.00 to 3.00	1.00 to 3.00		
Lower grades	1.00 to 3.00	1.00 to 3.00			Asters	.50 to 1.00	.50 to 1.00		
Bride, 'Maid, Golden Gate, fan & sp	3.00 to 5.00	3.00 to 5.00			Gladioli	.50 to 2.00	.50 to 2.00		
“ “ low grds.	.50 to 2.00	.50 to 2.00			Adiantum	.50 to .75	.50 to .75		
Liberty, Richmond, fancy & special	3.00 to 5.00	3.00 to 5.00			“ Crocanum	1.00 to 1.50	1.00 to 1.50		
“ lower grades	.50 to 1.00	.50 to 1.00			Smilax	8.00 to 12.00	8.00 to 12.00		
Kaiserin, Carnot, fancy and spec.	3.00 to 6.00	3.00 to 6.00			Asparagus Plumosus, strings	20.00 to 30.00	20.00 to 30.00		
“ lower grades	.50 to 2.00	.50 to 2.00			“ “ & Spren. (100 bchs.)	10.00 to 25.00	10.00 to 25.00		
Killarney, Wellesley, fan. and spec.	3.00 to 6.00	3.00 to 6.00							
“ lower grades	.50 to 2.00	.50 to 2.00							

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Commission Merchants in Cut Flowers

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Telephone 356 Madison Square

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Furnish best stock at fair prices all the year round Send for quotations on fall orders

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BRONZE GALAX, \$1.25 per 1000. SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25
Hammond's Old English Liquid Putty, \$1.25 per Gal. Hammond's Greenhouse White Paint, \$1.50 per Gal.

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Write for price list on cut flowers and supplies.

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Wholesale Commission Florist, also Dealer In
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BOSTON, MASS.

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PER 100.
TO DEALERS ONLY.

	CINCINNATI Sept. 24	DETROIT Sept. 24	BUFFALO Sept. 23	PITTSBURG Sept. 23
ROSES				
Am. Beauty, Fan, and Sp.....	20.00 to 25.00	..... to	20.00 to 25.00	25.00 to
" Extra.....	15.00 to 20.00	10.00 to 18.00	15.00 to 20.00	12.50 to
" No. 1.....	10.00 to 12.50	6.00 to 8.00	8.00 to 10.00	6.00 to
" Lower grades.....	5.00 to 8.00	3.00 to 5.00	3.00 to 8.00	..... to
Bride, 'Maid, Golden Gate, F. & S. ....	..... to 6.00	6.00 to 8.00	6.00 to 7.00	6.00 to 4.00
" " Extra.....	..... to .....	..... to .....	..... to .....	..... to
" " No. 1 & lw. gr.	3.00 to 4.00	3.00 to 5.00	2.00 to 4.00	2.00 to 4.00
Liberty, Richmond, Fan, & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	4.00 to 5.00
" Lower grades.....	3.00 to 5.00	3.00 to 5.00	3.00 to 6.00	2.00 to 4.00
Chatenay, Morgan, Fan, & Sp. ....	..... to .....	..... to .....	..... to .....	..... to
" Lower grades.....	..... to .....	..... to .....	..... to .....	..... to
Kaiserin, Carnot, Fan, & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 7.00	2.00 to 8.00
" Lower grades.....	3.00 to 5.00	3.00 to 5.00	3.00 to 6.00	..... to
Killarney, Wellesley, Fan, & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 7.00	4.00 to 6.00
" Lower grades.....	3.00 to 5.00	3.00 to 5.00	3.00 to 4.00	2.00 to 4.00
CARNATIONS				
Fancy and Novelties.....	..... to 2.00	..... to	1.50 to 2.00	2.00 to
Ordinary.....	..... to 1.00	1.00 to 2.00	1.00 to 1.25	1.00 to
MISCELLANEOUS				
Cattleyas.....	..... to	50.00 to	50.00 to 60.00	10.00 to 18.00
Lilies.....	10.00 to 12.50	12.50 to 15.00	4.00 to 15.00	15.00 to
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	4.00 to
Asters.....	.50 to 2.00	1.00 to 2.00	.25 to 1.50	.50 to 2.00
Gladioli.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	1.00 to 4.00
Adiantum.....	..... to 1.00	1.50 to 2.00	.50 to 1.50	1.00 to 1.50
Smilax.....	12.00 to 15.00	12.50 to 15.00	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings..... to 40.00	40.00 to 75.00	40.00 to 50.00	25.00 to 50.00
" " & Spren. (100 bchs.) to 25.00	20.00 to 30.00	25.00 to 35.00	50.00 to

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Cut spikes in any quantity from
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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. **J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.**

Adiantum Hybridum, 2-12 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. **A. Ley & Bro., Highland, Ulster Co., New York.**

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Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons, 51 and 52 N. Market St., Boston.
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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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Fall delivery. Our stock will please you. **J. W. Dunford, Clayton, Mo.**

ASPARAGUS

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. **Wittbold Co., 1657 Buckingham Pl., Chicago.**

Asparagus Plumosus, 3 1-2 in. heavy, \$7 per 100. **Sprengel**, 3 1-2 in. heavy, \$6 per 100. **Smilax**, 2 1-2 in. \$2 per 100. **Seranton Florist Supply Co., Seranton, Pa.**

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. **Erle Floral Co., Erie, Pa., or Wm. F. Kastling, Co., 385 Ellicott St., Buffalo, N. Y.**

Asparagus plumosus, 2½ in., \$3.50 per 100; \$30 per 1,000; 3-in., 6c.; 3 1-2 in., 10c. 4-in., 12c.; 5-in., 20c.; 6-in., 30c. **Comorensis**, 2-in., 2c.; 2½ in., 3c.; 3½ in., 6c. **Sprengel**, 2½ in., 3c.; 3½ in., 5c.; 4-in., 10c. **J. W. Dunford, Clayton, Mo.**

AUCTION SALES

Wm. Elliott & Sons, 201 Fulton St., New York.

Plant Auction Sales.

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Sales of Decorative plants, Carnations, etc., every Tuesday and Friday. If you cannot attend send bids and shipping instructions. Catalogues on application. **N. F. McCarthy & Co., 84 Hawley St., Boston.**

AZALEAS

John Scheepers & Co., 4 and 6 Old Slip, New York.

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The best commercial varieties. **J. W. Dunford, Clayton, Mo.**

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Stumpp & Walter Co., 50 Barclay St., New York.

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Specimens and pairs, all sizes. Send for prices. **N. F. McCarthy & Co., 84 Hawley St., Boston.**

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

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McRae-Jenkinson & Co., Cheswick, Pa.
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BOILERS, "Burnham" Boilers made for greenhouse heating. **Lord & Burnham, 1133 Broadway, N. Y.**

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lilies. For page see List of Advertisers.

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Rickards Bros., 37 East 19th St., New York. White Roman Hyacinths. For page see List of Advertisers.

H. F. Michell Co., Philadelphia. Lillium Harrisi.

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Johnson Seed Co., 217 Market St., Phila. Paper White Narcissus.

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John Scheepers & Co., 4 and 6 Old Slip, New York.

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Aug. Rolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs.

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Chas. H. Green, Spencer, Mass. Field-Grown Carnations.

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Leo Niessen Co., 1209 Arch St., Phila. Field Grown Carnations.

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Edwards Folding Box Co., Philadelphia.
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Light Wood Boxes.

Folding cut flower boxes, the best made.
Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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DRACAENAS

Dracaenas, Indivisa, 3-in., \$5.00 per 100;
6-in., \$6.00 per doz.; 7-in., 30 to 34 ins.
high, 75c. each, \$9.00 per doz.; 8-in. \$12.00
per doz. Terminalis, 3-in., \$2.00 per doz.;
6-in., 75c. each; 4-in., 25c. each, \$3.00 per
doz. The Geo. Wittbold Co., 1637 Buck-
ingham Place, Chicago.

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Bay State Nurseries, N. Abington, Mass.
Small Evergreens.
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FERNS

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W. P. Craig, 1305 Filbert St., Philadelphia.
"Amerophil."
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Ferns, 4-in. Whitmani, 30c. Barrowsll,
15c. C. E. Ervin, Latonia, Ky.

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Floral Photographs. Foley's 226-228-1-3
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

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Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.
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Finest green and bronze Galax in any
quantity at lowest figures. N. F. Mc-
Carthy, 84 Hawley St., Boston.

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1-2-in., 6c. Rooted cuttings, \$15 per 1000.
J. W. Dunford, Clayton, Mo.

Geranium plants from field of the best
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tings to the plant. \$6 per 100. Cuttings
50c. per 100. Rooted cuttings \$1.25 per
100. William Doel, Pascoag, R. I.

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Arthur Cowee, Meadowvale Farm, Berlin,
New York.
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Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

Augusta gladioli, and white and light.
Rowehl & Grauz, Hicksville, L. I., N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury
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GLASS, High Grade, Double Thick Green-
house Glass. Lord & Burnham, 1133 Broad-
way, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

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GREENHOUSE BUILDING MATERIAL.

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S. Jacobs & Sons, 1365-79 Flushing Ave.,
Brooklyn, N. Y.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-
Iron Greenhouses, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS, Cast Iron Gutters, L. & B.
Improved V Shaped Gutter with drip gut-
ter attachment. Lord & Burnham, 1133
Broadway, N. Y.

HARDY FERNS AND SUPPLIES

A full line of ferns, galax, and all wild
greens. N. F. McCarthy & Co., 84 Haw-
ley St., Boston.

H. M. Robinson & Co., 15 Province St.,
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Michigan Cut Flower Exchange,
88 & 40 Broadway, Detroit, Mich.
Fancy Ferns.

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HARDY HERBACEOUS PLANTS

Hardy Herbaceous Plants. Bobbink & At-
kins, Nurserymen & Florists, Rutherford,
N. J.

In writing to Advertisers kindly mention Horticulture

HARDY PERENNIAL PHLOX

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HARDY PERENNIALS

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T. H. Chivers, Amesbury, Mass.
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Eastern Nurseries, M. M. Dawson, Mgr.,
Jamaica Plain, Mass.

Choice Hardy Perennials.
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Hardy Perennials: extra large field-grown clumps, three dollars and four dollars per hundred. Delphinium, Coreopsis, Digitalis, Platycodon, blue and white, Anemone, Hibiscus, Gaillardia, and many other standard species. Samples sent by express on receipt of stamps to cover cost and packing. James Kiewson & Sons, Cheltenham, Montgomery County, Penn. sylvania.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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McRae-Jenkinson & Co., Cheswick, Pa.
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INSECTICIDES.

Nicoticide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil Insecticide.

IRISES

We have 100,000 Japan Irises, the finest collection in this country. Rowehl & Granz, Hicksville, L. I., N. Y.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

MUSHROOM SPAWN

Wm. Elliott & Sons, 201 Fulton St., New York.
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Kentucky Tobacco Product Co., Louisville, Ky.
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Nicotine Mfg. Co., St. Louis, Mo.
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Oak Hill Nurseries, Roslindale, Mass.
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Nursery Stock, N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

Choice Evergreens, Blue Spruce, etc. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

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Lager & Hurrell, Summit, N. J.
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Importers, Exporters, Growers, Hybridists.
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Orchids, Orchid Baskets, Peat.
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Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange,
88 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Perry Green, 63 Howard Ave., Quincy, Mass.
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Choice Pansy Plants, Transplanted, ready September 1; 50c. per 100, \$4.00 per 1000. S. J. McMichael, 142 Larkins St., Findlay, O.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat, Leaf-Mould, Live Sphagnum moss, Baled Sphagnum moss, Green Clump moss, etc. Jobbers' list on application. C. W. Brownell & Co., Walden, N. Y.

PEERLESS GLASS REPAIR; GLASS

Alex. Klokner, Wauwatosa, Wis.

PEONIES

Cottage Gardens Co., Queens, N. Y.
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George Hollis, 128 Hollis St., So. Weymouth, Mass.
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Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PIPE COUPLINGS AND BOILER TUBES

Constantly on hand merchantable sound second hand pipe with new threads and couplings; also new galvanized pipe. 5000 feet 3-in. sound second hand boiler tubes with 2 1/2-in. standard pipe threads and couplings. 1000 feet 2 1/2-in. boiler tubes with 2-in. standard pipe threads and couplings very suitable for greenhouse heating. 10,000 feet 4-in. sound boiler tubes cleaned with square cut ends in any length with corking hubs if required. Pfaff & Kendall, Foundry Street, Newark, N. J.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

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PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIVET

Trained Privet: Pyramidal and standard forms; three thousand shapely plants; five to eight feet, excellent for screening and ornamental purposes; at trifling cost as with Bay Trees. Prices on application. James Krewson & Son, Cheltenham, Montgomery County, Pennsylvania.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Lady Gay Roses.

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Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

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12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Giant Cyclamen Seed.
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Braslan Seed Growers Co., San Jose, Calif.
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J. A. McDowell, Ap. 167, City of Mexico.
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Ant. C. Zvolanek, Bound Brook, N. J.
Mignonette Seed.

I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

SMILAX

Smilax, \$2.00 per 100; \$15.00 per 1000. August Sauter, Nyack, N. Y.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmits, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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VEGETABLE PLANTS

Grand Rapids lettuce plants, A1 stock, now ready to ship, 20c per 100, by mail; \$1.00 per 1000, by express. S. J. McMichaels, 142 Larkins St., Findlay, O.

VENTILATING APPARATUS

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VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1183 Broadway, N. Y.

VIOLETS.

Malcolm Orr, N. Saugus, Mass.
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5000 clumps California violets, ready now, finest stock in the west, 4 1-2 c. 250 or more at 4c. J. W. Dunford, Clayton, Mo.

Violets—30,000 strong, healthy, field grown Campbell and California No. 1, at \$2.50 per 100; \$20 per 1,000. No. 2, good plants, at \$1.50 per 100; \$12 per 1,000. Satisfaction guaranteed or money returned. None better. The California, extra large and fine clumps, packed to carry safely. I have shipped over 10,000 already with entire satisfaction. Chas. Black, Heights town, N. J.

WIRE STAKES

W. W. Coles, Kokomo, Ind.
Galvanized Wire Stakes.
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WIREWOK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hefischer's Wire Works, 88 40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

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GREENHOUSES BUILDING OR CONTEMPLATED.

Hamilton, Md.—E. Van Reuth, one house.

Brownsville, Ore.—E. Russ, one house.

Chester, Pa.—C. P. Mueller, two rose houses.

Wooster, O.—R. H. Thorne, range of houses.

Davenport, Ia.—Rose Waltman, violet house.

Watertown, Mass.—C. H. Chenery, one house.

Ypsilanti, Mich.—J. G. Worden, lettuce house.

Vincennes, Ind.—C. F. Baker, improvements.

W. Bridgewater, Mass.—G. P. Presby, house 30x50.

W. Roxbury, Mass.—John Smiley, 100 feet addition.

Rock Island, Ill.—H. Schaeffer, range of lettuce houses.

Marlboro, Mass.—G. A. Brigham, vegetable house 60 feet.

Lynbrook, N. Y.—Chas. Weber, carnation house, 200 ft. long.

Oconomowoc, Wis.—F. Pabst, two plant houses, each 36x100.

Ypsilanti, Mich.—J. G. Worden, vegetable forcing house, 20x80.

Madison, N. J.—David Shannon, changes and additions; Edward Behere, changes.

Johnson & Neilson, Prospect street, Framingham, Mass., have completed a new house 33 x 300 and 15,000 carnations are housed therein.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

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SITUATION WANTED in general greenhouse work; single, age 35, five years' experience, commercial. Address W. W., care Horticulture.

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Is Your Name In The Above List? If Not, Why Not?

SHADE TREE TROUBLES.

Abstract of lecture given before the Worcester County Horticultural Society, by Dr. George E. Stone.

In touching upon the subject of shade trees a few words might first be said in regard to their general value.

There is nothing which adds so much to the beauty of a town or city as shade trees, and persons of good taste appreciate this fact. One will notice in traveling through any portion of the country that the villages adorned with a large number of beautiful shade trees are those in which have existed for some time considerable public spirit, refinement and culture. On the other hand, mill towns whose inhabitants have no permanent homes, are usually notable for their lack of trees and embellishments in general. Many people, however, appreciate fully the value and beauty of shade trees and no argument is necessary to convince them that they are a great addition to any community.

Shade trees, however, possess another value, that of utility, and we wish to call attention to this feature because it is not generally appreciated and furthermore because it will appeal to the practical man who is little in sympathy with the beautiful in any form. The decisions of courts in this country have in more than one instance proved that trees possess a property value, and in many cases from \$50 to \$200 or more have been awarded to the abutter for the destruction of a single tree. It makes little difference whether a tree is located on the street or on private land or whether it is set out by the town or city or by the abutter, since a tree in front of a piece of property adds value to it and the abutter can claim damages for the destruction of such a tree. An elm tree 18 to 20 inches in diameter for example, may be worth \$100 to \$300, and one would experience little difficulty in obtaining recompense for the destruction of such a tree. If a gas leak occurs in front of a certain property and a tree is killed by gas, the owner can take the case before a court and obtain damages, the amount to be based upon the deterioration of the property owing to the destruction of said tree.

There appears to be no legitimate reason why a city or town should not appropriate money for the setting out of trees along streets and highways, although, of course, the tax payer bears the burden of expense. It is recognized that a sidewalk or curb put in front of an estate is an improvement to it, the abutter being taxed for such improvements, and since a tree is an improvement to an estate and has a property value there is no reason why the community as a whole cannot be taxed for such improvements. Moreover, the value of a tree is continually increasing, since a tree which costs \$2.00 or \$3.00 to plant should be worth \$100 to \$200 or more in the course of 50 years. This aspect of the problem should undoubtedly be emphasized at the present time, as many individuals regard trees as merely ornamental and of no utilitarian value.

The matter of selecting trees is important from the point of view of susceptibility to disease as well as from the aesthetic and utilitarian aspect, and the following list, prepared by

Col. W. F. Cox, Superintendent of the State Forest, N. Y., is quite complete.

Wide Streets	Narrow Streets.
American or White Elm,	Norway Maple,
Hard or Sugar Maple,	White or Silver Maple,
Tulip Tree,	Red Maple,
Basswood, (Linden,)	Ailanthus,
Horse-chestnut,	Cucumber Tree,
Sweet Gum,	Ginkgo,
Sycamore, (Button-ball,)	Bay Willow
White Ash,	Pin Oak
Scarlet Oak	Red Flowering Horsechestnut,
White Oak	Black or Yellow Locust,
Red Oak	Hackberry,
Honey-Locust,	Hardy Catalpa,
American Chestnut,	Lombardy Poplar,
Sycamore Maple,	Carolina poplar,
Italian Poplar.	Cottonwood.

Of this list we are all familiar with the sugar maple and elm, as they have been extensively planted in this region for years and they are undoubtedly the best trees for this region. There are many other trees which might be employed to good advantage in street planting, although some of those in the list are not best suited to our conditions. We occasionally find the sycamore maple, horse-chestnut, tulip tree and white ash planted on streets. The horse-chestnut has the reputation of being a rather dirty tree and is not very long-lived. The sycamore is not planted to any extent with us, although it is a native tree and more or less abundant in our river valleys. In Europe it is used quite largely in a conventional form and in this way may be made adaptable even to business streets, provided there is a space two or three feet wide between the curbing and the sidewalk filled with good loam. This would afford sufficient soil for the growth of conventional trees, as the crown may be modified to any desired size by pruning.

The native basswood when young is a well shaped tree, but those we have seen growing on streets are inclined to be tall and slender and are not altogether satisfactory, although their shape might be modified by pollarding.

The various species of oaks are hardy, well-proportioned trees, although they grow rather slowly, but if planted a good distance apart and filled in with some quickly growing tree, like the Carolina poplar, they make excellent trees for roadsides and when the oaks have attained a fairly good size the poplars may be sacrificed. Various combinations of trees may be employed, an especially effective one being maples and Norway spruces, planted alternately.

To obtain the desired effect quickly the various kinds of poplars are frequently planted, the most highly prized at the present time being the Carolina poplar, which in our state grows wild in the Connecticut valley. The Italian poplar grows the most rapidly, attaining a diameter in some instances of 26 inches in 20 years.

The silver maple is a symmetrical tree of rapid growth but is easily injured by ice.

The red maple is not a desirable tree for planting, and about eighty per cent. of them in the state today are in a diseased condition. One of the mistakes often made in planting the red, Norway and sycamore maples on streets, is neglecting to prune them high enough. These species form large branches very low, the large limbs frequently obstructing traffic, and when

mature it is not desirable to prune them.

The Ginkgo, a native of Japan, has been recommended very highly in recent years as a shade tree, and excellent specimens of this tree may be found growing further south. It does particularly well in Washington, where there is a fine avenue of them on the Agricultural grounds. It grows very slowly here, however, as we seem to be out of range for its best development.

Most of our street trees have their enemies, both insect and fungous. The elm suffers chiefly from the beetle and the sugar maple from borers, which may usually be found on trees injured from some other cause, however. The tulip tree is almost always disfigured by some insect, and the horse-chestnut and sycamore are subject to a leaf fungus. The Italian poplar is often affected by rust, the Carolina poplar is subject to borers and many other trees, especially the maples, suffer each year from sun-scorch to some extent.

Most of the injury caused by fungi, however, is the result of poor pruning or mechanical injuries, particularly when antiseptic methods have not been employed in caring for the wounds. There are various wound fungi which testify to the results of poor pruning and lack of proper antiseptic treatment. Some fungi—for example, *Nectria*—are the result of winter killing, and occasional injury is caused by slight discharges of lightning and frost cracks which cause wounds favoring the development of fungi.

Various root injuries occur from changing the grades of the streets, patting in curbstones, digging man-holes, etc., and a too common source of injury may be traced directly to horses' teeth, the injudicious use of lawn mowers, etc. To prevent injury from lawn mowers the sod should be removed from around the tree for a distance of a foot or more, and with the large number of tree guards now on the market at reasonable prices much of the injury from horses' teeth may be obviated. Of the various types of tree guards in use, one of the most practical and cheapest is that cut in strips about seven feet long and wound about the tree.

The practice of placing signs on trees should be condemned, since ugly scars are often caused by the trees over-growing the sign.

One of the greatest difficulties with which trees have to contend is the wire problem. The rights of trees in the street are at least equal to those of wires, but it often becomes a difficult matter to string wires through a street without interfering with trees. Among the different ways of dealing with wires may be mentioned burying them, which is too costly in some cases; using the ring or cable construction in the case of telephone wires, or placing wires on private property in the rear of buildings. In the case of trolley and electric wires, the ring construction method is out of the question, and in some cases placing them on private property is not practicable. Many poles are attached to trees by means of guy wires, and in our estimation there is very little harm in this practice providing it be properly done. We do not believe the lagbolt system is a

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good one, but passing a loop around a tree and using blocks to prevent contact of the wire with the tree is better than resorting to the use of duplicate poles and props. In many cases it is unnecessary to attach wires from poles to trees, since the poles can be imbedded in Portland cement and held firmly in place, which would prevent much injury to trees. It should be pointed out, however, that there is always a risk in attaching wires in any way to trees, as lightning discharges are likely to pass from the guy wires to the trees and damage them, and a great deal of disfiguration is caused by live wires coming into contact with dead ones.

No authentic cases are known of an alternating current, of whatever potential, killing trees, and the injuries from this current are restricted to burning and disfiguration. High tension currents are more dangerous than those of low tension, consequently more attention must be given to the matter of insulation. There are authentic cases of a direct current, however, such as employed by electric railways, killing trees, and there is also evidence to support the idea that trees may be injured or killed by being connected by guy wires with this system.

Many more trees are injured by gas than formerly, which is due to the fact that gas is used much more extensively, is conveyed in larger pipes and the system of calking the joints is quite different from that formerly employed.

Occasional injury is brought about by atmospheric gases—the result of the combustion of coal. This is more likely to occur in places where large amounts of soft coal are burned. Evergreens are peculiarly susceptible to gas poisoning, and often die from its effects.

Injury is sometimes caused by the use of crude petroleum or kerosene. These are frequently employed for spraying the trunks of trees for the woolly aphis and other insects, but it is never safe to apply them even when mixed with water, and many of the landing substances which have been used in connection with the suppression of the gypsy moth are extremely injurious to trees.

Much attention has been giving to killing trees in recent years, and by this practice the life of a tree is undoubtedly prolonged. There are two methods of treatment, one consisting in cleaning the cavities thoroughly, removing all decayed tissue and treating the interior with tar or paint. The ori-

fice of the cavity is then covered with tin and painted. In the other method the tree is filled with Portland cement after it has been thoroughly cleaned and disinfected, using the same proportions as are ordinarily employed in construction work. One of the difficulties in the use of Portland cement for this work is the cracking of the cement in large cavities when the tree sways, which allows fungi to enter in and reinfect the trees. Much more attention is given to the care of trees than formerly, and there are several reliable firms which are doing excellent work at the present time.



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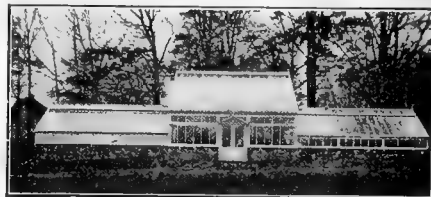
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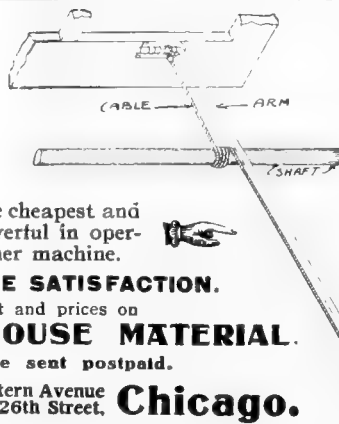
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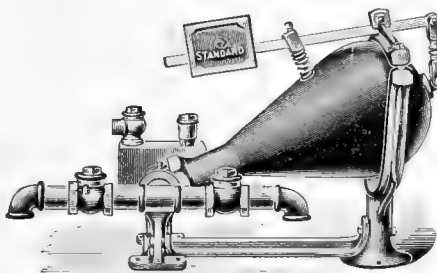
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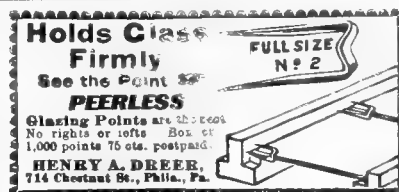
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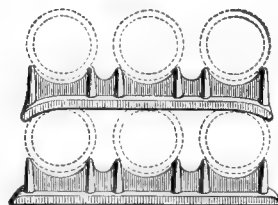
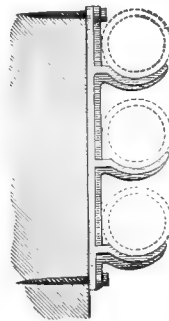
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HORTICULTURE

Vol VI.

OCTOBER 5, 1907

No. 14



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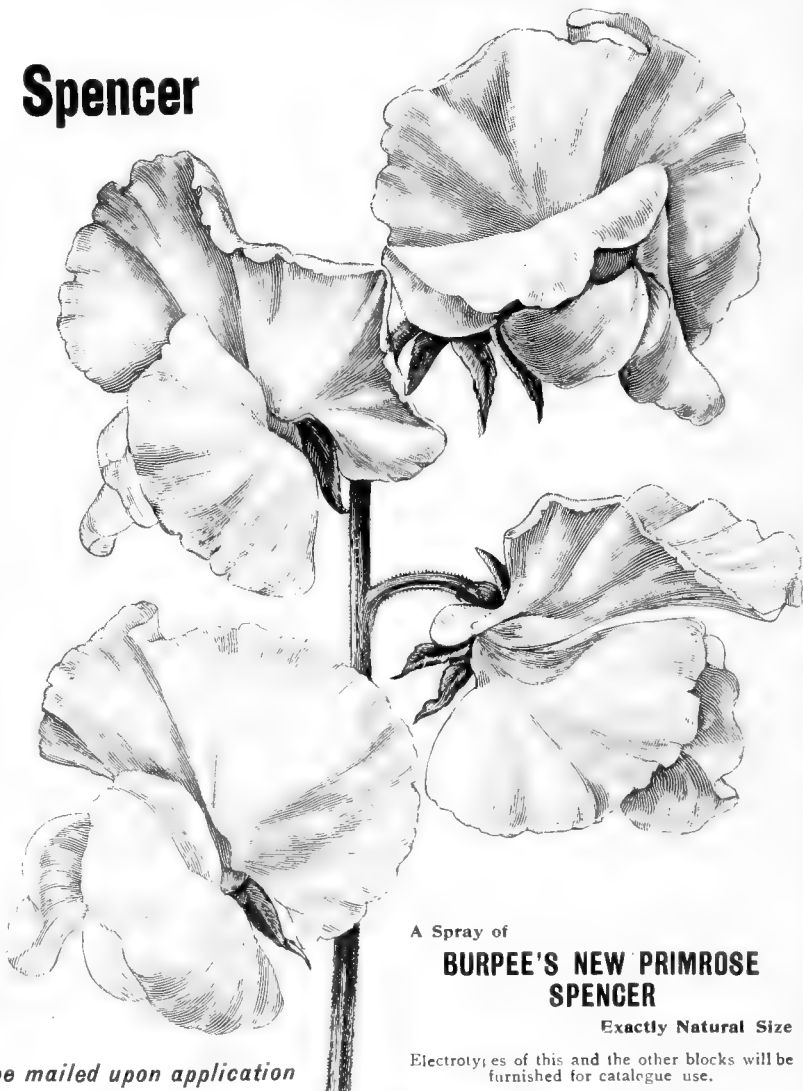
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Roses Under Glass

As the season for firing approaches, ventilating and watering must be attended to with extreme care and caution. The transition from natural to artificial heat, is the most critical period in the life of the rose and any neglect, either from carelessness or ignorance, in the administration of the essentials, ventilation, water and temperature, at this season, will inevitably result in trouble.

With the rapidly shortening days, it must be borne in mind that evaporation is on the decline and stock cannot use, with advantage, the copious supplies of water necessary during the summer months. Root action will also become more sluggish, and if the soil is watered indiscriminately the stock will surely suffer. Artificial heat affects the soil in the benches in an entirely different manner from sun heat, and it will be found "where the pipes are in close proximity to the bench bottom" that the soil underneath is dry, while the surface is apparently wet enough. This condition calls for great care and watchfulness to keep the soil uniformly moist and the roots from suffering.

Syringing must now be practiced on every favorable opportunity in order to keep red spider in check. In nearly every house there are places where, by reason of extra pipes, headers, etc., heat accumulates, and the plants so situated should receive special attention as these are the breeding places of the pest, and, if allowed to remain unmolested, will, in a very short time become truly plague spots.

Care bestowed on the ventilation, and guarding against abrupt changes of temperature, draughts, etc., will minimize the danger of contracting mildew. But if this pest has gained access to the house a coating of sulphur and lime on the steam pipes will soon eradicate it.

There are several ways of preparing this mixture. Some growers use only the sulphur and water; others, instead of using water, dissolve the sulphur in linseed oil, but what virtue there is in either method the writer is unable to say, as the following preparation has proven quite satisfactory to us, being at once economical and beneficial, in that the sulphur sticks to the pipes and gives off fumes until it is entirely dissipated. The mixture is composed of quicklime, sulphur and water, the amount of sulphur being determined by the extent of the mildew contracted. Slake the lime in a bucket used for the purpose, and when boiling, or disintegrated, add the sulphur and mix thoroughly, reducing with water to the consistency of paint. In severe cases of mildew two parts sulphur to one part lime will prove effective. For lighter applications use less sulphur.

Disbudding should receive its full share of attention. To encourage the growth of straight, graceful stems, and substantial buds, all lateral shoots must be removed while they are young and soft and not allowed to remain until they are so hard that they have to be cut off with a knife. Tying the plants neatly to the stakes, so that the whole presents an appearance of symmetry and grace, rather than the bedraggled condition in which, unfortunately, we so often see them, will facilitate syringing, and by admitting a freer circulation of air among the plants give tone and texture to the foliage and prevent the moisture from collecting on the lower leaves, a most fruitful source of black spot and other fungoid diseases.

Clifton, N. J.

J. E. Simpson

Forms of *Euonymus radicans*

Editor HORTICULTURE.

Dear Sir:—I wrote you last spring in reference to the forms of *Euonymus radicans* in common use for ornamental planting (letter was published in your magazine Vol. 5, Page 372.) Since then I have found that the three varieties I described have been classified and described in Professor Sargent's "Trees and Shrubs," Vol. 1, Page 129. Following are the scientific names under which they can be found therein, and also English names under which I have sometimes found these varieties described by a few horticulturists, gardeners, etc. (These English names I think might be improved upon.)

Euonymus radicans, var. *reticulatus* (Rehder). Narrow-leaved Evergreen Creeper.

Euonymus radicans, var. *Carrierei* (Nicholson). Broad-leaved Evergreen Creeper.

Euonymus radicans, var. *vegetus* (Rehder). Round-leaved Evergreen Creeper.

As there is considerable use made of these forms it may be of interest to your readers to have these facts brought to their attention, and it may help to establish a more accurate knowledge of the forms in question, something very much to be desired, among nurserymen especially.

Still other varieties have been classified and named, but they are not so apt to be confused as the above.

Very truly yours,

Chas. J. Kochler

Pyrethrum for White Fly

Editor HORTICULTURE.

Dear Sir:—Allow me to say a few words in regard to the article published in a recent issue about "Hydrocyanic Acid Gas for White Fly."

This gas is certainly sure death to the white fly, but it will also ruin the tomatoes and a good many other plants if used in the proportions recommended. A much safer way to get rid of the white fly is to fumigate with Pyrethrum (or Persian Insect Powder, which to all practical purposes is the same thing).

Put a few handfuls of the powder on a saucer at every 25 feet or so, put a few drops of wood alcohol on and light. It will burn itself out over night. Have the house closed tight; fumigate for a few nights in succession and repeat as often as a fly makes its appearance. This is very important, as the fumes will kill the fly but not the larvæ. Don't give the flies a chance to lay eggs and there will not be any larvæ after a while. I have got rid of all the white flies in my houses in this way without injuring anything amongst a great variety of plants including orchids and ferns as well as tomatoes and cucumbers.

The fumes of the Pyrethrum are choking and rather unpleasant but otherwise harmless to human beings.

M. J. Ope

Vangoluck, Conn.

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Protect the pines

The ease with which young pines may be raised from seed and the advisability of their extensive planting on waste tracts all over the country was the keynote of one of the addresses at the horticultural congress at Norfolk last week. In this connection it is very gratifying to note how freely the white pine is coming up spontaneously all over New England, particularly where the deciduous growth which followed the cutting of the primeval pine forests has been taken off. In vast districts of Massachusetts, New Hampshire and Maine it would seem that protection, not planting, is all that is now needed. The coming generation of New Englanders should have pine lumber in abundance provided proper protection is given now against fire and the ravaging pulp-mill.

A point well taken

Long before the advent of the present generation of horticulturists, and continuously ever since, has the discussion on the relative merits of practical and theoretical education in horticulture gone on. Never, however, so far as our knowledge goes, has the insufficiency of the college graduate lacking actual experience been so frankly admitted by those high in college work as at the Jamestown Congress last week. It was asserted that if the agricultural college pupil is to be worth, when turned out, what it cost to make him he must be given teachers a part of whose lives, at least, has been spent on the farm and in the garden, attaining by actual experience that knowledge which books and lectures can never impart but which is now recognized to be indispensable in successful teaching and demonstration. To the ranks of the practical working horticulturists, then, must the colleges go for instructors before they can fully carry on the work for which they have been created. No doubt "the man with the hoe" will acquit himself with dignity and credit when put to the test.

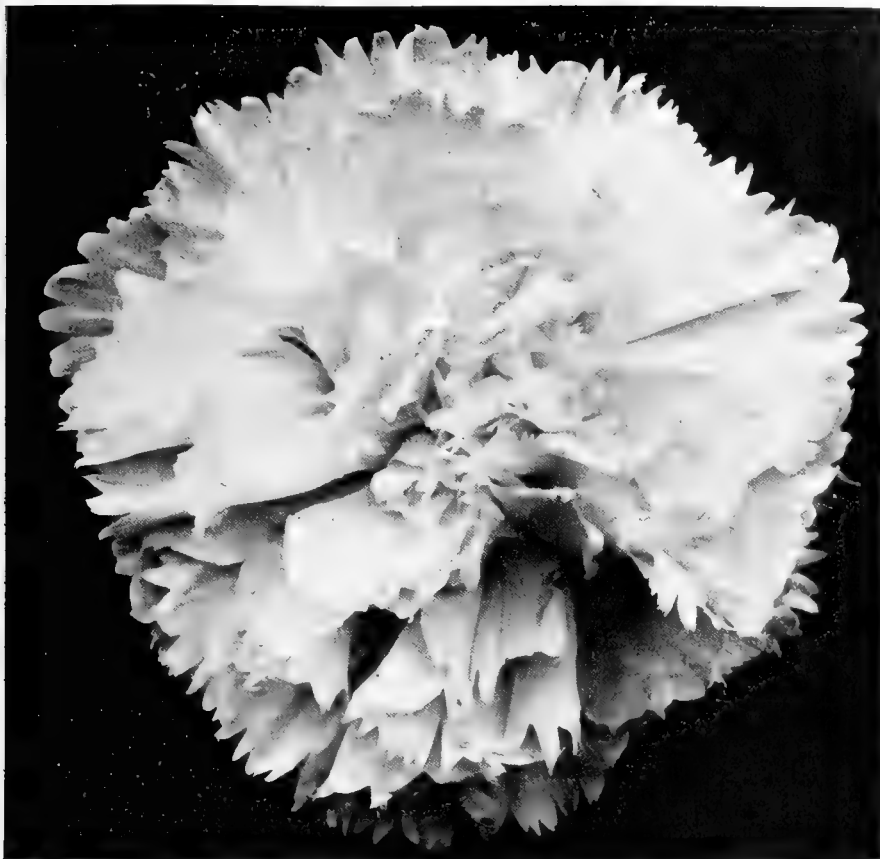
"Hands across the sea"

We draw from the Market Growers' Gazette, a journal published in London, that the relations between the fruit and flower growers and the transportation companies are no more satisfactory in England than they are in this country. At a meeting held at Badsey to protest against existing conditions and rates it was asserted that practically all the proceeds from the huge crop of fruit being marketed from that district this year goes into the pocket of the railroad company. Among the instances cited which will find a responsive echo with some of our flower shippers was that of one man who shipped one pot (?) of asters to a Manchester salesman; the asters were sold for 2s. and the railway charge was 2s. 3d. Another consigned some wallflowers to Newcastle which arrived after two days, spoiled; they were sold for 1s. and the carriage cost 2s. Another protester argued that at the rates demanded shippers should "ask that the produce should not be trampled on by the porters and that it should be quickly delivered!" Fight it out to a finish, gentlemen. You'll get your rights if you only hang on and show them you're in dead earnest.

The credit problem

Seemingly as far off from determination as ever, the old problem of a better system of credits and collections in the wholesale plant and cut flower trade is again agitating the growers and wholesale dealers, who find themselves about to open the new season with books still burdened with accounts receivable held over from last year. The framing of any method of credit limitation, combining the necessary justice, elasticity and effectiveness, is no easy matter. There are to be found, of course, among the retail tradesmen of all large cities, firms of all grades of reliability and the estimates of comparative responsibility in the case of many of them are as divergent as are the experiences of those who have severally had dealings with them. Methods of classifying and rating which work satisfactorily in certain other lines of trade prove impracticable in the marketing of perishable flowers with their widely fluctuating values from day to day or from hour to hour and there are times also, when a consignor's wishes cannot be ignored. Yet the need of reform must be apparent to anyone conversant with the facts. If the extent to which the wholesale trade in the aggregate is furnishing capital for the retail flower trade in the large centres could be known, we believe it would create a sensation.

A CARNATION WITH A FUTURE.



CARNATION SARAH HILL.

THE QUESTION OF THE HOUR.

The contribution from our esteemed editor on "The Question of the Hour" brings up a very important question which ought to be taken up by the organizers of the Boston Landscape School. When we consider how far practical knowledge goes in securing a position, private or otherwise, and also the time and money spent by the members of the Boston landscape class in making themselves more familiar with landscape gardening, besides the cost of securing a small horticultural library which is necessary but is very rarely so with any other class of tradesmen, the incident told by our editor about a gardener having a fourteen-year record in his last position having been offered the large salary of \$1.75 per day, should show to every one that there is something more required than a good practical knowledge of horticulture, good habits, etc. I do not underestimate the value of the Boston landscape course but, as is well known to every one, we can secure through the correspondence landscape school more individual attention than is possible to secure with such a large attendance as at the Boston Landscape School, also a considerable reduction in fees—not forgetting car fares.

We understand the course is to extend over three years. By this time every member ought to be thoroughly acquainted with landscape gardening but all of us have not the almighty dollar to go into business for our-

selves, therefore we have to secure a situation on a private estate or otherwise.

We are also told that the Boston Landscape Class was organized with a view to bringing the best young gardeners to the front, but unless the promoters of this class can assist its members, whether in a small place or as assistant, to secure positions where their ability will be appreciated, the members will just be where they started and probably still have to accept positions with a salary of \$1.75 per day.

For the welfare of the profession and the success of the Boston Landscape Class let us consider what can be done to assist its members to secure remunerative positions and report at their monthly meetings their progress in this direction. By this method, instead of forty members attending the Landscape Class, an increase will be found in a very short time and the organizers will be able to give an assistant to Mr. Howard who could then go among the members of the class and explain more in detail. Without this assistance our readers can judge for themselves the results.

DAVID MILLER.

PERSONAL.

Visitors in New York: Carl Jurgens, Jr., Newport, R. I., Mr. Breitenstein of Brietenstein & Flemm, Pittsburg, Pa.

A reception was tendered to Martin E. Tuohy of So. Boston, Mass., at Ber-



CHARLES KNOPF

Raiser of Carnation Sarah Hill.

The illustration herewith shows the actual size of this superb pure white carnation which, we are told, will be the grandest novelty in its line for 1908.

nice hall on September 16, on his return from a two months' trip to Ireland.

Thomas F. Galvin sailed from Boston on the White Star liner Canopic on October 1. He will leave his family in the South of France for the winter.

Visitors in Boston: R. L. Adams, Salinas, Calif.; Fred Lautenschlager, Chicago; S. S. Skidelsky, Philadelphia; Andrew Wilson, Summit, N. J.; Thos. Knight, Rutherford, N. J.; Geo. F. Struck, Summit, N. J.

Walter F. Sheridan of New York has been quite ill at the hospital for the past two weeks, and present indications are that an operation for appendicitis may be found necessary.

Robert Hunnick, who was for many years head gardener at Rough Point, F. W. Vanderbilt's Newport estate, has purchased four lots of land in the restricted neighborhood on the Annandale road.

Edward Hatch, well-known to all the trade about Boston and to many elsewhere as the treasurer of the Gardeners' and Florists' Club of Boston, and an all-round, whole-souled friend of the horticultural fraternity, is the moving spirit in a new banking institution, The Exchange Trust Company, which opened for business at 33 State street on October 1.

The Knights' Review, a magazine published at Cincinnati, in its September issue presents an excellent portrait of D. Rusconi, the well-known wholesale florist of that city. Mr. Rusconi is a veteran of the war between Italy and Austria, 40 years ago, and a compatriot of the great Garibaldi. He has been identified with the plant, bulb and supply trade in Cincinnati since 1879. He is treasurer of the Cincinnati Florists' Society.

NEWS OF THE CLUBS AND SOCIETIES

MARYLAND HORTICULTURAL SOCIETY.

In the beautiful Court of the States Exhibit Palace, Jamestown Exposition, the summer meeting of the Maryland Horticultural Society was called to order by President Orlando Harrison, who in his introductory remarks expressed to the members his appreciation of the first privilege of presiding over their deliberations, and congratulated the Society on the large attendance. Pres. M. St. George Tucker delivered the address of welcome. After music by the Exposition band, President Harrison introduced Hon. W. McCulloch Brown, who made a pleasing response, thanking President Tucker for his warm welcome, and expressed the appreciation of the members of the Society to the Exposition authorities for setting aside a day to be known as the Maryland Horticultural Society Day and for providing such a pleasant place for the meeting. At the conclusion of this address, the band played "Dixie."

The regular program was then followed and President Harrison introduced Prof. R. W. Silvester, of the Maryland Agricultural College, whose address may be considered the feature of the morning session. Pres. Silvester in an eloquent manner discussed "The great benefit to be derived from the annual meetings and exhibits of the Society," and expressed in no uncertain terms the necessity of the horticulturist as well as the agriculturist to organize in order to protect themselves. He cited some of the great results obtained by similar organizations in other parts of the country to secure their just rights in the sale of their products. He also discussed horticultural education and the great work the agricultural colleges and experiment stations are doing in this country.

The next speaker was Julius J. Heinrich, on "The Troubles of a Landscape Gardener at an Exposition." This address proved very interesting. Prof. L. R. Taft of Michigan was then introduced and he discussed "The Possibilities of the Peach, Michigan vs. Maryland." Prof. Taft brought out the great success of the peach in Michigan, and cited conditions applicable to Maryland. He stated that of course the yellows were found here and there, but the up-to-date orchardist made it a point never to let a diseased tree remain for a day after the detection. Prompt action in destroying the trees will prevent severe injury. He ably discussed the manner of selection and caring for a peach orchard.

"The possibility of nut growing in Maryland" was ably presented by Prof. M. E. Van Deman. Many members of the Society were surprised to know the great profit of the various kinds of nuts that can be grown in the State.

The last address on the program was by Prof. C. P. Close, who discussed "Some of the Newer Strawberries in 1907." Prof. Close brought out many points of interest in connection with the new varieties of strawberries and cited the great success that the Experiment Station is having in this work.

The Secretary, Prof. Thomas B. Symons, then called the attention of the

members to the annual meeting of the Society, which will be held in Baltimore, Dec. 3rd and 4th, in the Fifth Regiment Armory. He pointed out that there would be over 60,000 sq. ft., to cover with exhibits, and stated that it was the desire of the officers to make this the greatest horticultural show ever held in the East. The large amount offered in premiums should be an incentive to all to compete. He urged that members send fruit to the cold storage, and that the florists grow special plants for the show. Prof. Symons thanked the members for their cordial support in making the Horticultural Exhibit at Jamestown Exposition, and stated that he realized the great difficulty in their sending fruit this off year in the State.

After the meeting the members of the Society visited the Horticultural Exhibit. Many were greatly surprised to see the fine peaches and apples shown this year. The fine exhibit of cauliflower also attracted great attention.

The space was beautifully decorated with roses, carnations and a large exhibit of many varieties of dahlias from R. Vincent, Jr., & Sons, of White Marsh, Maryland.

This concluded the program, and after passing the following resolutions, the meeting adjourned:

"Inasmuch as the press of Baltimore City and Counties of the State as well as the press of Norfolk have from time to time freely published accounts of the Maryland Horticultural Exhibit at the Jamestown Exposition, thereby advertising the great horticultural possibilities of Maryland;

Resolved: That the thanks and appreciation of the members of the Maryland State Horticultural Society be expressed through this resolution to all editors in the State as well as in Virginia and to various horticultural and agricultural journals for the cordial support in promoting the aims of the Association in bringing to the public's attention, the great opportunities for this industry in Maryland. Be it further

Resolved: That the members of the Maryland State Horticultural Society are very much gratified with the good work done by Prof. Thos. B. Symons at the Jamestown Exposition, especially when we take into consideration the small amount of the appropriation he had to do it with, and ask that he be commended in all that he is doing for our "Grand Old State of Maryland." Be it further

Resolved: That the members of this Association extend to the officers of the Jamestown Exposition their great appreciation for setting aside September 24th to be known as Maryland Horticultural Society Day and various courtesies in furnishing music at the opening of our session, and providing a most pleasant place for the meeting. Be it further

Resolved: That as the Jamestown Exposition has received so much adverse comment by earlier visitors that would tend to discourage future visitors from the Exposition, that the members of this Association hereby testify to their fellow citizens in the

State that the Exposition in its complete form is more than worth a visit by every Marylander, and we urge upon every one in the State that has not visited same to not miss this great opportunity of viewing a picturesque as well as most edifying Exposition.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of the Lenox Horticultural Society was held September 21st, vice-president W. Jack in the chair. Messrs. E. Jenkins, A. H. Wingett and A. J. Loveless were appointed finance committee for the chrysanthemum exhibition. A Jenkins gave a description of his recent visit to England among the most interesting features being Wolverhampton and Shrewsbury summer exhibitions.

A magnificent cup was presented to the society by Henry A. Dreer of Philadelphia for competition at the fall exhibition, and should prove an incentive for more members to compete in the miscellaneous group of plants. The following questions were found in the box: What is the best soil for sweet peas? What are the best varieties?

A very interesting discussion followed, the consensus of opinion being that a soil well enriched with barnyard manures and deeply spaded, and upon which no similar crop had been grown for some time, was the best suited for sweet pea culture.

With most growers sweet peas have done remarkably well this season, and the following list of varieties were considered the best in their different colors: King Edward, Countess Spencer, Gladys Unwin, Miss Willmott, Helen Pierce, Lady Grisel Hamilton, Othello, Mrs. E. Kenyon, Dorothy Eckford, Nora Unwin, White Wonder, Navy Blue. The novelties such as Frank Doiby, Mrs. Castle and others were grown only in a limited way and it was a general impression that they would have to show a marked improvement before displacing any of the above list.

G. H. INSTONE, Sec'y.

FLORISTS' CLUB OF PHILADELPHIA.

The annual meeting of this club was held on the 1st inst. and was largely attended. A spirited contest developed in the election of officers for the ensuing year. The new board is as follows: President, Fred Hahman; vice-president, William Graham; secretary, David Rust; treasurer, George Craig. An excellent paper was read by W. E. McKissick on the commission man's relations to the salesman and the storekeeper which we hope to find room for in an early issue. Some well finished carnations of standard varieties were shown by William Kleinheinz of the Widener conservatories, who explained to the members his cultural methods in securing such fine results at this early season. A vase of the new pink rose Mrs. Jardine, was exhibited by Robert Scott & Son and excited much favorable comment. The color is a bright rosy pink, shading in the outer petals to salmon pink. It is lovely in form and substance and very fragrant.

The exhibitors claim that this new variety is the superior of Bridesmaid and Killarney in every way, and especially so in mid-winter when these two standards lack color. Mrs. Jardine is a hybrid tea raised by the Dicksons of Newtonards.

WASHINGTON FLORISTS' CLUB.

The regular monthly meeting of the W. F. C. was held Oct. 1st at 1007 G street N. W., with a fairly good attendance. One of the most attractive features of the evening was a fine dahlia exhibit. W. R. Gray of Oakton, Va., had an extensive display, as did R. Vincent and Sons and Henry A. Dreer. Dr. Warrenton Evans, a celebrated dentist of Washington, had a most beautiful array of choice cactus dahlias.

All were glad to welcome back our Vice-President Blackistone, who has been summering near Boyds, Md. P. H. Dorsett of Alexandria was present as guest of the club. Several matters of vital importance were brought up and discussed. A report of the matter allowing Bay and other ornamental trees on the sidewalks was made, to the effect that they could not be placed more than 4 ft. from building. The next regular meeting will be held Nov. 5th at Gude's Hall.

TARRYTOWN HORTICULTURAL SOCIETY.

The regular monthly meeting of the T. H. S. was held in Good Temple Hall Friday evening, September 27, President Howard Nichols, presiding. Wm. Will, Katonah, N. Y., and Alex. Maitland, Irvington, N. Y., were elected to active membership. Some very good exhibits of vegetables were on the tables, which created a very lively discussion as to methods of judging.

The tickets are out for the November show, and our secretary urged the members to push the sale of same.

CLUB AND SOCIETY NOTES.

The charter of incorporation has been received by the Horticultural Society of St. Louis. November 12-15 are the dates set for the fall show.

The Toronto Gardeners' and Florists' Association held their first meeting of the season on Sept. 17, President Edward Dale in the chair. A special exhibit at the fruit and flower show in November will be made by them.

The Birmingham Florists' and Horticultural Society has just been organized in Birmingham, Ala., with officers as follows: President, Hugh Seales; vice-pres., G. B. McVay; sec., Alex Sawyer; treas., Andrew Hague. Meetings will be held on the first Tuesday of each month.

The dahlia show of the American Institute at the Berkeley Lyceum, New York, last week brought out a superb display of this popular flower in all its classes, as well as four collections of gladioli, orchids, decorative greenhouse plants, etc. The Charles Lanier dahlia sent from Lenox created a sensation equal to that produced in Boston on its appearance there recently.

THE EXHIBITIONS

RECENT SHOWS.

Huntington (N. Y.) Horticultural and Agricultural Society.

The fifth annual exhibition of the Huntington Horticultural and Agricultural Society held on September 26th, was a great success. The entries, while not quite so numerous as in some years, were of uniformly excellent quality. A heavy rain storm on Monday had damaged fruit and flowers badly.

Arthur Cowee, the gladiolus specialist of Berlin, N. Y., had a fine display of named and mixed gladioli, many new and interesting shades of color being shown. The stage decoration of palms and ferns by August Heckscher was worthy of note.

Some of the prize winners were: August Heckscher, Adolph Alius, gardener, 1st for ferns, palm, begonia, roses, carnations, basket and bouquet, collection six varieties vegetables; twelve first prizes on vegetables and three on fruit. Walter Jennings, Richard Cartwright, gardener, 1st for floral centerpiece, collection of 12 varieties vegetables; six first prizes on vegetables and four on fruit. W. J. Matheson, James Kirby, gardener, 1st for dahlias, 12 double, cactus, and collection of dahlias; collection of perennials; four 1st prizes on vegetables and two on fruit. Rosemary Farm, J. H. Smith, superintendent, two first prizes on vegetables and two on fruit. George Taylor, Edward Gildersleeve, gardener, three firsts on vegetables and two on fruit. Joseph Mercier, six firsts on vegetables. H. T. & A. H. Funnell, 1st for begonia, specimen flowering plant; special for peppers, first for apples. L. I. Railroad experimental stations at Wading River and Medford, second and third on collection of 12 varieties of vegetables. H. Paulding, first for watermelon, and two firsts on fruit. C. A. Wicks, one first on vegetables, two on fruit. Mrs. S. A. Smith, two firsts on celery. David E. Cisco, first on sweet corn, three firsts on apples.

The Peter Henderson & Co. premium was captured by Walter Jennings. Stumpp & Walter Co. prize by Mrs. S. A. Smith, Vaughan's prizes by August Heckscher and H. T. & A. H. Funnell, Rickards Bros'. prizes by J. H. Smith and August Heckscher.

A. H. FUNNELL, Sec.

Connecticut Horticultural Society.

This society held its dahlia show in Unity Hall, Hartford, on Wednesday, Sept. 25. Owing to the excessively heavy rains of the previous Monday fears were entertained that really good exhibits would be the exception rather than the rule. Happily, however, these fears proved groundless, and the exhibition, as a whole, was excellent. Splendid exhibits were staged by the Black Hall greenhouses, E. H. Steele, manager; J. F. Huss, superintendent of the Goodwin estate; W. W. Hunt & Co., Blue Hill Nurseries; the City Parks, Peter Zuger, head

gardener; James P. Ralph, New Britain, Conn.

The judges were C. H. Sierman, J. F. Coombs and F. W. Davis, and their awards gave general satisfaction.

Miscellaneous exhibits, other than dahlias, added much to the interest of the show. Under this head, special prizes were awarded to J. F. Huss for a fine collection of the newer Japanese anemones and for collection of vegetables; W. L. Goodwin, J. A. Weber, gardener, collection of grapes; Whitney greenhouses, Carl Peterson, superintendent, exhibit of Kaiserin roses; John Coombs, group of decorative plants; City Parks, group of cannas; W. W. Hunt, collection of hardy evergreens.

ALEX. CUMMING.

Aster Show at Spokane.

The eleventh aster show under the direction of the Spokane Floral Association at the Interstate fair grounds on the opening day of the industrial exhibition, Sept. 23 to Oct. 5, was the feature attraction at the end of the Pike. The thousands of blooms were shown under a big white tent, which was filled to capacity when Mayor Moore formally opened the show and presented two handsome silver cups for the best displays, the condition being they must be won twice to become the property of exhibitors. Mr. Moore explained that the purpose of these exhibitions is to encourage the cultivation of flowers and make Spokane more attractive, adding that when the city shall have completed its park system and civic centers it will have 580 acres of land filled with beautiful trees, shrubs and blooms. Mesdames F. Wallace King, Z. A. Pile and W. H. Ludden, judges, made these awards:

Display of asters, silver cup, offered by Interstate Fair Association, Herman Thoeni; second, Miss Carolyn Richards.

Group of asters, silver cup, offered by the City Beautiful committee, Herman Thoeni; second, blue ribbon, Dr. W. A. Watson.

Display of cut flowers, Hoyt Bros.; second, Spokane Florist Company.

Potted plants, first, Spokane Floral Company; second, Hoyt Bros.

Fifty tall growing asters, Mrs. O. M. Sparke; second, E. L. Bloom.

Design, Hoyt Bros.; second, Mrs. A. Gill.

Design, E. L. Bloom; second, L. A. Valentine.

Basket, Miss Carolyn Richards; second, Mrs. John Bantham.

Hanging basket, Lou Riley.

Display of dahlias, Alec Keegan; second, Miss Carolyn Richards.

Mrs. Josephine Brinkerhoff, through whose perseverance and work the culture of asters in Spokane has gained such widespread interest, was highly complimented upon the success attained, and it is hoped she will continue her excellent work. The association was formed ten years ago.

Houghton Horticultural Society.

The three days' show of the Houghton Horticultural Society, Lynn Mass., closed on September 26 with a banquet. Among the commercial growers, E. F.

Dwyer was awarded first prize for selection of cut flowers and second prize for dahlias, W. D. Moon taking first. The society's silver medal was won by George Barker, gardener on the A. F. Estabrook estate.

COMING SHOWS.

Massachusetts Horticultural Society Fruit and Vegetable Show.

The annual exhibition of fruits and vegetables of the Massachusetts Horticultural Society will take place at Horticultural Hall, 300 Massachusetts Avenue, Boston, Thursday and Friday, October 10 and 11.

This is the only exhibition of the Society which is devoted exclusively to the fruit and vegetable interests, and it is intended that it shall represent the products of New England in these lines.

It is expected that every one of the New England states will contribute specimens of its fruits and vegetables which, with the displays of our local growers, will make a grand autumn festival.

The sum of \$500 is to be awarded in prizes for fruits, and \$300 for vegetables.

Special interest centers in the classes for collections of apples, pears and grapes, and in the decorative collections of vegetables, for which large prizes are offered, and the competition in these is expected to be keen.

The exhibition, which will be free to all, will be open Thursday, October 10, from 12 m. to 6 p. m., and Friday, October 11, from 10 a. m. to 6 p. m.

WM. P. RICH, Secretary.

AN ENTERPRISING TEXAS CITY.

A vigorous campaign for the planting of trees in Denison, Texas, during the tree-planting season, has been begun. The splendid success attending the distribution of flower seeds through the public schools in the spring has encouraged the Civic Improvement League to undertake a similar work in the interests of trees during the winter. Plans have not been fully matured, but it is known that Secretary Larkin is figuring on the purchase of several thousand trees which he hoped to buy at a very low figure and in a general way the plan will be to furnish these trees to the school children at actual cost and to arouse them to an understanding of the value of trees. While Texas towns have been ever on the alert for enterprises and have made desperate efforts along certain lines of development, the aesthetic side of the proposition has escaped attention. The important feature of town buildings, that of making it a comfortable place to live in, is too often neglected.

About a year ago the Board of Trade and the Civic Improvement League of Denison united in an effort to improve civic conditions in that busy town, and the results have been highly gratifying and the effects far-reaching. There has been a wonderful awakening among the people and young and old have been stimulated to action in the improvement of the streets and the home grounds.

HORTICULTURE IN THE EASTERN STATES.

Read at the Congress of Horticulture, Norfolk, Va., by J. K. M. L. Farquhar.

Representing, as I do at this congress, the section of this country first settled by the white race, it affords me the greatest satisfaction to point to the very early date at which interest in horticulture found expression.

The very name of their vessel, the Mayflower, must have brought often times to the recollection of the Pilgrims during their long voyage the fragrant and beautiful hedgerows of white and pinkish hawthorn, which in England they called mayflower, a name which they soon bestowed upon the choicest and sweetest of spring flowers of their adopted country. Long before they saw the mayflower bloom, however, the Pilgrims had raised their voices in praise of the beautiful garden products of the new world. The explorers then sent out on the 16th of November, 1620, reported that they had found divers fair Indian baskets filled with corn, some whereof was in ears, fair and good of divers colors, which seemed to them a very goodly sight, having seen none before,



J. K. M. L. FARQUHAR

of which rarities they took some to carry to their friends on shipboard, like as the Israelites' spies brought from Eschol some of the good fruits of the land.

In 1621 Edward Winslow, describing the new country, wrote: "Here are grapes, white and red, and very sweet and strong also; strawberries, gooseberries, raspberries, etc.; plums of three sorts, white, black and red, being almost as good as Damson; abundance of roses, white, red and damask, single but very sweet indeed."

In the spring of 1621 the Pilgrims at Plymouth planted twenty acres of corn and six acres of barley and peas. The corn did well, the barley fairly well, but the peas were not worth gathering, having been sown too late and became sun-scorched while in bloom. Numerous records of farm and garden crops planted by the Pilgrims have come down to us, and many evidences still exist in the locality they occupied of their zeal in garden work. At first the Colonists, of necessity, imported fruit trees and vegetables for their sustenance. Within twenty years of the landing of the Pilgrims, Governor Winthrop of the Massachusetts Colony, at his farm in Charles-

town; Governor Endicott, of the Salem Colony; Governor Prince, of the Plymouth Colony, and Governor Stuyvesant, of New Amsterdam, had established nurseries, dealt in fruit trees or plants, and were promoters of horticulture. Fruits, vegetables and a large variety of herbs were imported and sold. Flowers were too great a luxury for the Colonists, and with the exception, perhaps, of a few roses, honeysuckle and pink milfoil, were not grown.

The First Flower Gardens.

Not until the beginning of the eighteenth century was there opportunity to give much attention to flowers. About that time the wealthier citizens of Philadelphia, Boston and New York began to cultivate large gardens, usually arranged in terraces, after the English style of that period, about their residences. One of these estates in the very heart of Boston was the residence of Governor Bellingham, and afterwards of Andrew Faneuil, who built upon it the first greenhouse in New England. On his decease it became the property of his nephew, the famous Peter Faneuil, who presented to the city of Boston the Cradle of Liberty. So beautiful was this garden that it became known as Faneuil's Seven-Acre Eden.

The Revolution stopped further progress in horticulture until the country became settled under the new government. Then began an era in garden work, marked by greater enthusiasm than ever before—enthusiasm which got its impetus from Washington, as he surveyed his grounds at Mount Vernon and made plans indicating the locations for trees and shrubs, many of which he collected or imported from Europe; and which upon arrival were planted by the same busy hands that earlier in their existence had cut down the immortal cherry tree, and which later in life made pruning their favorite exercise—enthusiasm which drew with it the second and third Presidents of the United States, John Adams and Thomas Jefferson, as well as many other notables of the eighteenth century—enthusiasm so perennial and vigorous that all predictions of progress have been more than fulfilled.

Present Attainments.

A. J. Downing in his excellent work on landscape gardening, published about seventy years ago, said:

"In the United States it is highly improbable that we shall ever witness such splendid examples of landscape gardens as those abroad," referring to Blenheim, Chatsworth, Woburn Abbey and Arundel Castle. That which Mr. Downing deemed improbable has taken place, and gardens more elaborate and costly are being constructed at the present time in the United States than in any other country. Take, for example, the beautiful gardens of Mr. James B. Duke at Somerville, New Jersey, which have been under construction for six or seven years, under the guidance of that genius of landscape art, Mr. Horatio Buckenham, employing twelve hundred men and involving an annual expenditure of half a million dollars or more—a garden covering an area of ten thousand acres.

The Pioneers.

The pioneers of horticulture of a

hundred years ago were the wealthier citizens; there were really no professional gardeners then. The Pennsylvania and Massachusetts Horticultural Societies were organized by these interested amateurs. A similar society was organized in New York in 1818, but ceased to exist in 1837.

The first professional gardener to come to this country was John Hesketh, who settled in Hallowell, Maine, in 1797, and was not afterwards heard of. In 1824, Mr. Andre Parmentier, from Enghien, Holland, settled in Brooklyn, and established nurseries, where he gave an example of the natural style of laying out grounds. As the first American landscape gardener, Mr. Parmentier soon had many clients from all parts of the country, and even from Canada, to whom he furnished both plans and plants. Mr. Downing considered that Mr. Parmentier had done much more for landscape gardening in America than any other individual. It is our turn to pay the same compliment to Mr. Downing, whose masterly works on landscape gardening, although written about seventy years ago, are still the standards.

In the economic line of horticulture there has been progress also. In New England we have now not only delicacies for the sick and luxuries for the wealthy, as our ordinary garden vegetables and fruits were considered in the early days, we go much further; we have gardeners who produce asparagus, cucumbers, tomatoes, string beans, melons, etc., as freely during December, January and on to June or July, as they are produced in the open ground in their season. One Newport gardener ships to his employer in New York a bushel or two of melons weekly. Another on the North Shore of Massachusetts sent in during last March a daily supply of fresh peas, sweet corn, etc.

Possibilities in Fruit and Vegetable Culture.

Notwithstanding the progress made there is still much to be done in fruit and vegetable culture. We are importing hot-house grapes from Europe. We are importing cauliflower during spring and early summer, and we are importing a number of salads, all of which may and in time will be produced here. In case of salads there are many excellent kinds unknown here which should be introduced, and the people instructed how to prepare them.

Among hot-house fruits the lichee should find a place; it is most prolific and equals Muscat grapes in flavor.

In commercial floriculture the East has made great progress. I need only recall the Lawson and Enchantress carnations raised by Mr. Peter Fisher of Boston; the work of the Waban Rose Conservatories, the recent new roses of Mr. M. H. Walsh of Woods Hole, Mass., which are quite as popular in Europe as they are here.

The Gardeners' Opportunity.

The concentration of wealth in New York ensures for the western florist the highest price for choice flowers. It also affords the gardener the largest opportunity for the pursuit of his profession. Within the past five years there seems to have been much greater interest on the part of the wealthy

class than formerly, in horticulture and rural life. This may be accounted for partly by travel and a desire to have such gardens as are seen in Europe, but I think it is due rather to the fact that the automobile has rendered the country home more accessible to the business man. The interest of the well-to-do in horticulture is further manifested by their support and activity in societies for its promotion, as the New York Botanical Gardens, the Massachusetts Horticultural Society and others.

The three largest Eastern cities have each much to be proud of horticulturally. Although the Bowery is no longer the Governor's Garden, New York has a noble horticultural institution in Bronx, Philadelphia has her beautiful Fairmount Park, sections of which were notable gardens of the past two centuries. Boston has always been at the front in horticultural work. No institution in the country has done more than the Massachusetts Horticultural Society. The names of General Dearborn, H. H. Hunnewell, Marshal P. Wilder, C. M. Hovey and F. L. Olmsted are too well known for the great works they have accomplished to necessitate my reviewing them.

Boston's Great Arboretum.

But we have in Boston today one who is doing a greater work for horticulture than any one who has preceded him. I refer to Professor C. S. Sargent. To him Boston and the country is indebted for the finest arboretum in the world, in which there are now growing over five thousand species and varieties of trees and shrubs. He has travelled over the greater part of the globe seeking new material, and his collectors are now busy in hitherto unexplored regions, collecting new material for shipment to Boston with which to enrich American horticulture. Daily he spends hours in his office personally examining and describing species and varieties of trees and shrubs for his Silva, the greatest work relating to horticulture ever undertaken in this country. The magnitude of the work at the Arnold Arboretum may be better understood when learned that three hundred and fifty varieties of Crataegus have been planted in the Order. There are approximately one hundred and fifty varieties of Syringa vulgaris, seventy varieties of Prunus, thirty-five of Pyrus, forty of Malus and about four hundred species and varieties of willows.

The Gardeners' and Florists' Club.

Another medium of horticultural progress is the Gardeners' and Florists' Club which has over five hundred active members. Meetings are held monthly for the discussion of garden topics and a class devoted to the study of landscape gardening meets twice a week during the winter months.

The magnificent private estates with extensive greenhouses of the East, including those of Bar Harbor, Boston and the Massachusetts Coast, Lenox, Newport, Long Island Sound, on the banks of the Hudson, along the New Jersey Coast, and in the vicinity of Philadelphia demand from the gardener the highest degree of energy and progress.

THE COMMERCIAL GROWING OF CUT FLOWERS.

Read before the Horticultural Congress at the Jamestown Exposition, by F. R. Emerson, Tarrytown, N. Y.

A Phenomenal Growth.

The development in the commercial growing of cut flowers in this country during the last thirty years is phenomenal. What might be dignified as the commercial growing of cut flowers practically had its beginning less than thirty years ago. Prior to that time, the quantity of flowers produced was insignificant, the quality, compared with present standards, inferior, and the methods of culture crude in the extreme. With the increase of wealth, there has been a marvelous progress in the production of cut flowers, both in the quality and the immense quantities produced. It seems incredible now that the writer, less than thirty years ago, was advised by one of the foremost florists of that time not to go into the cut flower growing part of the business, because it would soon be overdone. This seems the more incredible when one considers that today many single establishments are producing more cut flowers than the entire greenhouse production of the United States probably amounted to at that time.

Conditions Thirty Years Ago.

New York, which is one of the greatest cut flower centers in the world, thirty years ago depended on Boston for its supply of roses. The leading varieties of roses in those days were Safrano, Isabella Sprunt, and Bon Silene, all of which have practically disappeared, having been superseded by improved sorts, and to-day these one-time popular roses are almost unknown. In carnations at that time the leading variety was Pres. De Graw. A long-stemmed carnation was then unthought of, as many buds being allowed to develop on one stem as possible, and the flowers were cut with no stems. Loose, long-stemmed flowers were then an unknown quantity. These short-stemmed flowers were supplemented by wooden stems and wires, and made up into baskets, bouquets, etc., in the most formal and artificial arrangement, in fact, the inferior quality of the flowers permitted nothing better. The best flowers then produced would simply be unsalable to-day, on account of their small size and short stems. At that time so few roses and carnations were grown that they were necessarily supplemented by French and Dutch bulbs, which in those days were forced in comparatively large quantities.

In the earlier days of the cut flower industry, European methods of culture were in vogue. The few roses and carnations that were grown were grown mostly in pots, the greenhouses of those days being very primitive. Up to that time, the buildings erected for the production of cut flowers were very small and insignificant and comparatively crude affairs. With the introduction of some of the finer roses, like Perle, Cornelia Cook, Catherine Mermet, Pride, and Bridesmaid, a great impetus was given the cut flower industry, and then came the queen of all roses—American Beauty.

The Need for Better Houses Recognized.

I believe that the present up-to-date methods of rose growing had their beginning in the vicinity of Madison, New Jersey. The old pot method was discarded, and roses were grown on shallow benches in light, sunny, airy houses, and the results obtained were exceedingly satisfactory and profitable. Large ranges of rose houses were constantly erected in that section, along the line of the Delaware, Lackawanna and Western Railroad, and at that time Madison, Summit, and other towns in that vicinity were known as the Rose Belt of America; but since then immense ranges of glass for the cultivation of roses have been erected in so many different localities around New York, Chicago, Boston, and other large cities that no place in the country can boast of any particular supremacy.

The same development that occurred in the rose took place in the carnation, but at a considerably later period, and the present fine varieties of carnations that are now grown have all been produced within the last decade. First came Mrs. Thomas W. Lawson, which marked an epoch in carnation growing. This variety was the forerunner of such fine varieties as Enchantress, Mrs. M. A. Patten, Beacon, White Perfection, Winsor, etc. The trade was quick to discern that while these improved carnations could be grown in the old-time houses, they could be grown much better in the improved houses that were devoted to rose culture.

The Violet's Advancement.

Another flower which has become one of the most important is the violet. In the earlier days violets were grown in cold frames, covered with sash and straw mats; and, of course, with our severe winters, the supply was small and uncertain. The same improved methods of culture that have taken place with the rose and carnation followed with the violet; and today violets are grown in large quantities in light, airy houses—entirely under glass,—a method of culture that fifteen or twenty years ago was unheard and unthought of. The violet business has been largely centralized for many years now in the Hudson River valley, especially in the vicinity of Poughkeepsie and Rhinebeck, which has become famous as a violet-growing section, where the variety called Marie Louise is principally grown. Princess, the large single violet, which is not so difficult to grow, has been grown in other sections where Marie Louise has not been grown successfully or profitably. Immense quantities of Princess are grown, especially in the vicinity of Boston, and also in some of the large Canadian centers.

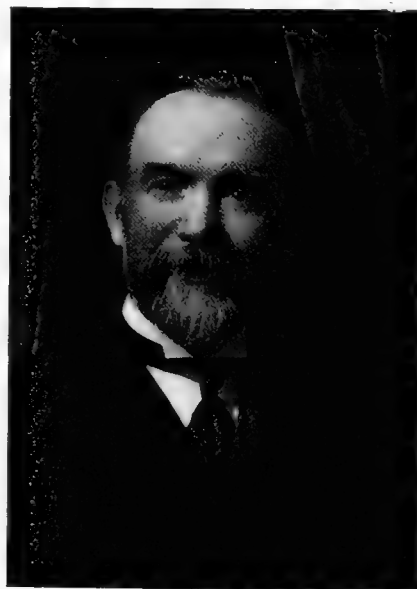
One of the most phenomenal improvements that have been made in any flower has been in the chrysanthemum, which has been developed to such an extent that one who knew it twenty-five or thirty years ago would not recognize the immense blooms grown to-day.

Supremacy of the Easter Lily.

Another very important flower for the florist is the Easter lily, which was grown only in very small quantities

until the introduction of the Bermuda Easter lily twenty-five years ago. Prior to that time, lily bulbs were obtainable only from Japan and Holland, and the sources of supply were very uncertain besides which, the bulbs often reached this market too late to force for Easter. Under these circumstances, the advantages of the Bermuda Easter lily were immediately recognized, as the bulbs could be brought here in July and August, so that it was possible not only to force them for Easter, but they could even be brought into flower by the holidays, so that the Bermuda Easter lily has become one of the most important flowers, especially for the Easter season, and is now grown in immense quantities.

I introduced the culture of the Bermuda Easter lily in Bermuda about twenty-five years ago, and for many years I believe that one-third of the revenue of the Bermuda Islands was derived from the culture and sale of this bulb. It has been grown there in



F. R. PIERSON

immense quantities, the annual output for many years being two million bulbs and up, one year having reached as high as four million. Unfortunately, with bad cultural methods, the quality of the bulb has deteriorated; still, the Bermuda-grown lily is an important factor. But the Japanese bulbs have made great inroads into the demand for the Bermuda bulbs, on account of the lower price for which the former can be supplied, and the fact that by reason of more rapid steamers and transcontinental railroads, it is possible to bring the bulbs here as early as September, so that the Bermuda lily does not occupy the important position today that it did fifteen years ago.

Other Bulbous Stock.

Among other bulbous flowers, the lily of the valley is one that has held its supremacy. This always has been, and probably always will be, in great demand; while other bulbous stock, like tulips, narcissi, and especially hyacinths, do not occupy the prominent place today that they did in former

years. In the larger cities, especially in the east, they are not very profitable. They are more largely grown in the west and in interior towns, where the supply of roses, carnations and the other finer flowers is more or less limited. Bulbous stock is more largely grown in Europe than in this country, because, owing to the lack of sunlight there, roses and carnations can not be produced as easily as they are here, so that the Europeans are more dependent on bulbous stock; but, recently, English growers have found that in following the American method of using shallow benches and building very light houses, very good results can be obtained. This is especially so with carnations, English growers having learned that they can do much better with our improved American varieties than with the varieties that they have grown heretofore; and there is beginning to be a large demand for our newest and best sorts.

Advent of the Wide Greenhouse.

In the character of the greenhouses devoted to the cultivation of cut flowers there has been a wonderful advancement in the past twenty-five years. Twenty-five years ago 11-ft. houses were in the majority. Then came houses 18 to 20 ft. in width, and, when fifteen years ago, we built a range of four iron houses, each 20 ft. by 300 ft., it was considered a model range, being much in advance of anything that had been built up to that time; but during the last five years especially, there has been a marked increase in the size of the houses erected, and today we believe that the best house that can be built is one ranging anywhere from 50 to 60 ft. in width. We are now building houses 56 ft. in width, running east and west, in which we use 16 x 24 glass and reinforced concrete sides, and we believe that houses of this kind are the most economical in construction and operation. While houses 56 ft. in width are seldom seen today, I do not believe that the limit of size has been reached by any means, and I believe that the tendency will be toward still wider houses.

Large ranges have been built of the narrower ridge and furrow connected houses, in an effort to obtain large areas under one roof, but we do not consider this style of construction as advantageous as the large, separate, wide houses. Ten years ago no one had any idea that such houses as are being built today were even practicable. Today the tendency is to gather under one roof more area than ten years ago would have comprised an entire establishment. The reason for this is the tendency toward specialization and the growing of one or two varieties of flowers by different growers, one grower devoting his attention to one variety of roses, like American Beauty, one concern alone growing as many as a hundred thousand of this variety. The same thing applies to carnations—some concerns growing between one and two hundred thousand carnations alone; and, of course, with the increased quantities of one variety, much larger houses have become a necessity. The tendency here in greenhouse construction is to increase the size of the house and the size of the glass, and, by the use of

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DRACAENA INDIVISA, strong, well-grown plants, 3-in. \$4.00 per 100; 4-in. \$10.00 per 100; 5-in. \$15.00 per 100.

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Aspidistras, pot-grown, 10 leaves in pot, green, \$6.00 per doz.; variegated, \$8.00 per doz.

Pandanus Veitchii, well colored, strong plants, \$25.00 and \$35.00 per 100

Araucaria excelsa, 2-3 tiers, \$20.00 per 100, 3-4 tiers, \$40.00 per 100.

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steel rafters, to eliminate as much woodwork as possible in order to get the maximum amount of sunlight, thus enabling the grower to produce the largest number of flowers during the short midwinter days when flowers bring the highest prices.

Large Capital Now Required.

Today flowers are no longer considered a luxury, but rather a necessity. In this connection, we might say that few people realize what it costs to produce the finest flowers, especially during the short midwinter days. In fact, I believe that in midwinter, when flowers seem to bring phenomenal prices, they are actually produced at a loss, when one takes into consideration the capital invested, the fuel consumed, and the labor involved. Even with the prohibitive prices at the holidays, I doubt whether they return the grower an adequate return for the capital invested. Even in California, that land of flowers and sunshine, where nature is so kind, it is necessary to grow flowers of good quality under glass, so that there, where one would naturally expect that flowers would have little or no value, it costs considerable to produce flowers of high quality. In the east, during midwinter, when there is little or no sunshine and when the amount of fuel required is enormous, it is doubly so.

Conditions Required for Success in Future.

Looking back at the progress that has been made during the last twenty-five years, and the improvements that have been made even during the last five years, one wonders what the next twenty-five years have in store for us. Certainly, the end is not yet, for we have reason to expect as much advancement in the future as has occurred in the last quarter of a century. Twenty-five years ago, any one could have gone into the florist business with little or no capital, and if careful and industrious, failure could hardly result; but today, with the large amount of capital invested in large establishments and the consequent ability to produce flowers more cheaply, larger capital is required, and first-class, up-to-date business methods must be practiced. A man cannot hope to succeed under the conditions that exist today as he would have been able to succeed in the earlier days of the business,—in fact, the florist business, as it is conducted now in the larger establishments, is fast assum-

ing the proportions of a flower factory, and the same up-to-date business methods will have to be observed as in any other manufacturing business to ensure success.

In the future, the man who will make the most marked success is the man who is located in the right place; that is to say, where labor is plentiful, where he can obtain a supply of coal at the least possible expense—preferably near a large city, where the shipping facilities are quick and frequent—where an abundant supply of water is to be had, and where the soil is first-class. One of the most important considerations is the selection of a proper location. Heretofore most greenhouse establishments have been located without much reference to this, as they have been developed from small beginnings; but the proper location is a large element to be taken into consideration if one would be successful.

I believe that today America leads the world in the production of fine cut flowers, and, while we have many large establishments that we may well be proud of, I believe that the business is only in its infancy, and that we may expect to see marvelous progress in the future.

WAPPINGERS (N. Y.) DAHLIA SOCIETY.

The capacity of the hall in which the annual exhibit of the society was held on September 20 and 21 was taxed to its utmost capacity by competitors for the prizes which amounted to upwards of \$400. The silver cup offered by the society was won by Irving Grinnell, John C. Galvin, gardener; the Uplands silver cup, offered by W. P. Clyde, by A. Seaman Hunt. The cash prizes offered by Irving Grinnell and the Dutchess County Horticultural Society were awarded to H. J. Osterhoudt, 1st; Wm. Marshall & Co.'s prize to Irving Grinnell, 1st, Thos. Boyle 2d; Mrs. R. W. Rives' prize to Mrs. Frank Hasbrook, 1st, S. Grigg, 2d. Space prevents our giving in full the very long list of general and special awards. Certificates of merit were awarded to the following: Collection of asters, Jas. Vick's Sons, Rochester, N. Y.; gladioli, Arthur Cowee, Berlin, N. Y.; John Lewis Childs, Floral Park, N. Y.; carnations, Adam Laub & Son; one each orange and lemon plants, W. R. Sands; window box of plants, James Ashton; table of caladiums, ferns and group of palms, Irving Grinnell. George Hale, Seabright, N. J., acted as judge.

OUR FRONTISPIECE.

The accompanying frontispiece illustration is from a photograph of *Lælia elegans*, probably the finest specimen ever flowered under cultivation. It was shown before the Royal Horticultural Society and secured a silver gilt medal for culture, with thirty flower spikes carrying two hundred and thirty well-formed highly colored blooms. It was grown by Mr. H. G. Alexander, for Major G. L. Holford of Tetbury, Gloucestershire.

The plant was imported by Sander & Sons in 1903. As many plants of this species have been distributed by Messrs. Lager & Hurrell, Summit, N. J., and others, it may interest your readers to see to what perfection this grand orchid can be grown. It requires similar treatment to that given Cattleyas, and grows most freely suspended in baskets or pans.

London.

A. DIMMOCK.

CINCINNATI PERSONALS.

George Trome, of Cincinnati, better known as "Spunk," will open a floral store at 923 Vine street, Oct. 5. George is not very big but what he loses in size he makes up in energy. His friends are many and he will undoubtedly make a success of his new venture.

D. Rusconi will shortly move to 128 West Sixth street where he has secured a better and larger store. His business has increased to such an extent that his present quarters are inadequate.

Wm. Murphy has returned from the lakes where he spends an enforced vacation each fall to escape the hay-fever—strange how the hay-fever only attacks those who can afford to go away.

F. W. BALL.

HEMLOCK BRANCHES

For Protecting Roses, Rhododendrons, Tender Evergreens, etc.

Butts, pointed, 3 to 5 ft., \$4.00
" " 5 " 7 " 5.00

Tied in bundles, for Quincy or Brockton. Larger or smaller branches furnished. Special prices for large lots. Fine boughs in bundles or large quantities. Address,

G. H. HIGGINS, 125 Atlantic St. Atlantic, Mass.

Seed Trade

Jerome B. Rice Seed Co. have issued their annual report on the onion crop, and while this report is probably not absolutely correct, it is by long odds the most accurate of any published.

This fact is appreciated by the larger growers and shippers of onions who eagerly look forward each year to this report, which is a most important factor in fixing prices—neither shippers nor buyers being willing to name a price in advance of the report on any large quantities.

The acreage by states and counties, also the yield per acre, are given, as well as the varieties grown, as to whether red, white or yellow.

To give the report in full would occupy too much space, therefore the average yield per acre and total crop acreage yield per bushel per acre and total crop of each state for 1906-7 are here given, and the percentage of reds, whites and yellows:

	Acreage		Yield per acre		Total yield	
	1906	1907	1906	1907	1906	1907
Colorado	740	688	490	250	362,000	172,000
Varieties—Yellows 40 per cent—reds 60 per cent.						
Connecticut	1,000	850	215	300	215,000	255,000
Percentages not given.						
Illinois	845	775	335	300	282,500	232,500
Varieties: Yellows, 28 per cent—reds, 68 per cent—whites, 4 per cent.						
Indiana	4,615	4,913	300	154	380,887	753,373
Varieties: Yellows, 58 per cent—Reds, 36 per cent—Whites, 6 per cent.						
Michigan	872	714	235	232	231,036	165,471
Varieties: Yellows, 36 per cent—Reds, 52 per cent—Whites, 12 per cent.						
Minnesota	660	633	384	309	253,450	195,175
Varieties: Yellows, 11 per cent—Reds, 87 per cent—Whites, 2 per cent.						
Iowa	211	187	400	379	84,000	70,800
Varieties: Yellows, 70 per cent—Reds, 30 per cent.						
Massachusetts	1,300	1,100	275	350	357,000	385,000
Varieties: Yellows, 90 per cent—Reds, 10 per cent.						
New Jersey	300	186	300	375	90,000	69,750
Varieties: Yellows, 75 per cent—Reds, 25 per cent.						
Oklahoma	200	200	200	175	40,000	35,000
Varieties: Yellows, 25 per cent—Reds, 50 per cent—Whites, 25 per cent.						
Ohio	4,683	4,648	244	314	1,161,241	1,455,855
Varieties: Yellows, 80 per cent—Reds, 7 per cent—Whites, 13 per cent.						
New York	3,710	3,125	253	364	939,200	1,136,750
Varieties: Yellows, 74 per cent—Reds, 24 per cent—Whites, 2 per cent.						
Pennsylvania	55	50	500	400	27,500	20,000
Varieties: Yellows, 100 per cent.						
Rhode Island	175	100	300	250	52,500	25,000
Varieties: Yellows, 10 per cent—Reds, 85 per cent—Whites, 5 per cent.						
Wisconsin	387	445	326	259	124,000	115,000
Varieties: Yellows, 9 per cent—Reds, 91 per cent.						
Vermont	15	30	500	300	7,500	9,000
Varieties: Yellows, 90 per cent—Reds, 10 per cent.						
Totals	19,915	17,670	283	291	5,626,914	5,140,174

It may be well to say that onion sets are not included in the above estimates, but it would be interesting to learn what the onion set crop has been for 1907, and possibly some of the large growers or shippers can furnish this information.

The initial prices for onions this year are somewhat above last, prices in the field ruling from 10 to 15c. per bushel over a year ago.

In New England figures range from 65 to 75c. per bu.; in Orange Co., N. Y., price is about 40 to 45c.; Central N. Y., 45 to 55c.; Ohio, 50 to 60c.; Indiana and Illinois, 45 to 55c., and quality of the stock is said to be somewhat inferior to last year's, being undersized and showing quite a percentage of "thick necks."

This is said to be especially the case in the West, where wet, cold weather in the early part of the season retarded growth and produced a beautiful crop of weeds, which have kept the onions from ripening down, and they will consequently prove very poor storage stock and are likely to become soft and useless early in the season.

This suggests an interesting situation and will receive attention later.

In considering this report, two important facts are noted: The acreage is about 2000 acres under that of 1906, while the yield is fully 500,000 bushels less, which probably means higher prices for good carrying stock next winter and spring, and this will in turn affect the demand for seed.

With reference to the Kentucky crop of onions, which is grown entirely from sets, this report says: About 500 cars were shipped this year, against 600 cars a year ago. This year the price started at about \$2.25 per bbl. of 150 lbs. and advanced to \$3.75 and \$4.00, most of the crop going at \$3.00 to \$3.50. Last year prices ranged from \$1.50 to \$2.50. These onions usually appear in the market about the last of June and are closed out before Aug. 1st.

It is only just to add that the report from which we have quoted so liberally was prepared mainly by Mr. Chas. P. Guelf, traveling salesman for Jerome B. Rice Seed Co.

Although September ended with several days' rain, which extended very generally all over the country, we should be more than thankful for the good growing weather and ripening conditions the entire month practically gave us—the best growing days of the whole season, without which seed crops would indeed have been failures. As it is, in many directions, results will be quite a little better than has all along been expected. We must now look for killing frosts, which will result in an active bulb business for the next two months.

Cold, rainy weather has been the portion of those that dwell in the New England and Middle states for the past ten days, and at this writing there is no indication of any material improvement. Severe frosts have occurred in the west, but the east has thus far escaped, though the sequel to the long, wet, cold spell will no doubt be the advent of Jack Frost. Let us hope that on his first appearance he will be in kindly mood.

GLOXINIAS FOR FLORISTS' USE.

The accompanying photograph was taken of a recent display of Gloxinias shown by E. W. Breed at one of the weekly exhibits of the Worcester Horticultural Society. Mr. Breed writes: It has been our custom after the spring bedding plants have been taken from the hotbeds, to place three inches of leaf mould on the spent manure, and in this, plant gloxinia seedlings a foot apart. The result is a large number of fine flowers during the summer. We find them very useful for cut flower and floral work, possessing excellent keeping qualities. Careful attention is given to the shading and ventilating. The thrips is kept in check by the use of tobacco stems spread about the plants. For the private gardener or retail florist, who grows his flowers, the gloxinia is certainly a valuable summer flower.



SEED TRADE NOTES.

Henry Nungesser, New York, has just returned from a very successful western trip.

C. D. Brown has retired from the Brown Seed Co., Sedalia, Mo., and the business will be continued by R. W. Tyree under the same name.

George E. Philp, formerly with W. W. Rawson & Co., and more recently with Joseph Breck & Sons has taken a position with Sherman & Ebeile of Albany, N. Y.

A. M. Rennie, recently appointed manager of Vaughan's Seed Store, New York, is critically ill at the hospital in Providence, R. I., where he has undergone a very serious surgical operation.

Pansy is this fall, and will be next spring, one of the scarce items in the line of flower seeds; the growers have been filling their contracts very meagerly, in some cases not exceeding 50 per cent. of the quantities expected.

Stumpp & Walter, of Barclay street, New York, on Tuesday, October 1, observed the tenth anniversary of the organization of the firm. A steady growth has marked their business from the beginning and their store, with its handsome new front now nearly completed, shows every evidence of permanent prosperity.

We noticed among other things displayed in the windows of H. E. Fiske Seed Co., 12 Faneuil Hall Square, Boston, a *Lycoperdon giganteum* or "Giant Puff Ball" mushroom, weighing 61-2 pounds, 14 1/2 inches in diameter, and the circumference 45 inches. This puff ball is edible. The exhibit has attracted a continuous crowd about the window.

GUARANTEED FRESH SPAWN

CHUCK FULL OF MYCELIUM
8lbs., \$1.00

Treatise: How to Grow Them.

Wm. Elliott & Sons
201 Fulton Street
NEW YORK

My GIANT CYCLAMEN

Are ahead in growth and flowers. Bloodred, Carmine, Pink, Pure White, White with Carmine Eye. Each color separate. Tr. pkt., \$1.00; 1000 seeds, \$6.00. An even mixture of the above 5 colors tr. pkt., 75c.; 1000 seeds, \$5.00. For larger quantities, special quotations.
O. V. ZANGEN, Seedsmen, HOBOKEN, N. J.

C. C. MORSE & CO.

Address all communications to our permanent address
48 to 56 Jackson St., San Francisco, Cal.

The Largest Seed Growers in the United States

Cyclamen Giganteum

MICHELL'S FANCY GIANT STRAIN

Grown for us in England by a Cyclamen specialist; cannot be surpassed for size of flower and brilliancy of coloring.

	100 Seeds	1000 Seeds
Grandiflora Alba, large-t white..	\$1 25	\$10 00
Princess of Wales, pink.....	1.25	10.00
Duke of Connaught, crimson ..	.25	10.00
Excelsior, white, with red base...	1.25	0.00
Salmon Queen, salmon pink.....	1.25	10 00
Choice mixed, all colors.....	1.00	9.00

REGULAR STRAIN

Grown for us by a specialist in Germany.

	100 Seeds	1000 Seeds
Album, white.....	.75	6 00
Roseum, pink.....	.75	6.00
Rubrum, red.....	.75	6.00
White, with red base.....	.75	6.00
Choice mixed, all colors.....	60	5.00

Write for our Wholesale Bulb Catalog.

HENRY F. MICHELL CO., 1018 Market St., PHILA., PA.

BAMBOO CANES

TOUGH AND STRONG

6 ft. long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO., - 50 Barclay St., New York

WHITE ROMAN HYACINTHS

12x15, \$3.00 per 100, \$23.50 per 1000
15x18, 4.00 " 38.00 "

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

Best Quality Fall Bulbs

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent upon request. Catalogues now ready.

VICK'S SUPERB PANSY SEED

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 75c 1-4 oz. \$1.50 Ounce \$5.00

JAMES VICK'S SONS, Rochester, N. Y.

BRASLAN SEED GROWERS CO.

GROWERS FOR THE
WHOLESALE TRADE ONLY

SAN JOSE, - - CALIFORNIA

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

CYCLAMEN Farquhar's Giant Strain

Unsurpassed for size of flowers.

Giant Crimson Giant Pink
Giant White Finest Mixed
Giant Excelsior, White with
Claret Base

100 seeds, \$1 25; 1000 seeds, \$10.00

R. & J. FARQUHAR & CO.

6 & 7 So. Market St., Boston, Mass.

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY CO.

32 & 33 So. Market St., BOSTON

HIGH GRADE French and Dutch BULBS

For prompt shipment, our Fall Bulbs Catalogue sent on request.

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS.

BERMUDA GROWN LILIAM HARRISII AND FREESIA BULBS

PURITY FREESIA BULBS

Ready for Delivery

H.E.Fiske Seed Co., 12 & 13 Faneuil Hall Square BOSTON, MASS.

CAULIFLOWERS CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

FIFTY PAIRS OF BAY TREES

Of All Sizes

Also quantity of large specimen **Orange Trees** and **Oleanders**, grand plants, five to ten feet in height; **Specimen Japanese Plants** in **original tubs**; also a quantity of large **Rubber Trees**, **Agaves**, **Palms** and various other plants of all sizes and descriptions.

MRS. STANFORD WHITE,

St. James, L. I.

NOW READY FOR DELIVERY

Lilium Harrissii Bulbs of the very finest quality. 6-7 inch bulbs, 350 to the case, \$6.00 per 100; \$55.00 per 1000. 7-9 inch bulbs, 200 to the case, \$9.00 per 100; \$85.00 per 1000. Full case at 1000 rates.

Freesia Refracta Alba **Finest Bermuda-grown** bulbs Extra quality bulbs, $\frac{3}{8}$ to $\frac{1}{2}$ inch diameter, 75c per 100; \$5.00 per 1000. Selected bulbs, $\frac{1}{2}$ to $\frac{3}{4}$ inch diameter, \$1.00 per 100; \$7.50 per 1000.

Bermuda Buttercup Oxalis \$1.00 per 100; \$7.50 per 1000.

White Roman Hyacinths Bulbs 12-15 cm. in circumference, \$2.75 per 100; \$25.00 per 1000. Bulbs 13-15 cm. in circumference, \$3.25 per 100; \$29.00 per 1000.

Narcissus Paper White Grandiflora Bulbs 13-15 cm. in circumference, \$1.25 per 100; \$9.00 per 1000. Bulbs 14 cm. and up in circumference, \$1.50 per 100; \$11.00 per 1000.

Allium Neapolitanum 75c per 100; \$5.00 per 1000.

If you have not received same, send for our complete list of bulbs for winter and spring flowering

F. R. PIERSON CO.,

Tarrytown-on-Hudson, N. Y.

THE JAPAN BULB BUSINESS.

To what extraordinary dimensions the Japan bulb business has attained may be shown by a few interesting figures.

The steamer *Monteagle* of the Canadian Pacific S. S. & Railway Companies which left Yokohama on Aug. 27, 1907, for Vancouver, B. C., took the largest cargo of lily bulbs ever shipped from Japan on one steamer. A regular record breaker it is, consisting of the immense amount of 4,699 cases or about 360 tons measurement: 1 ton equals 40 cb. ft. Taking as an average 225 bulbs per case, this steamer carried one million, fifty seven thousand, two hundred and sixty-five (1,057,265) bulbs. The principal portion of this shipment goes to the United States and Canadian cities, although a rather large number reach Europe by this route partly direct via Montreal and partly by transshipment in New York.

The bulbs shipped are at this early season principally *Lilium longiflorum* and its different types and varieties.

ALFRED UNGER.

The exhibitions of flowers by school children in ten of the public schools of Detroit were a great success. The children brought a general assortment of outdoor flowers principally asters, dahlias, gladioli, etc., of mostly very good quality. Messrs. Walter Taepke, Wm. Brown, and J. E. Scribner acted as judges in seven schools while Sullivan, Schroeter and Pouillon took care of the three other schools. Various prizes were distributed; the Detroit Florist Club assisting by not only furnishing the above judges but giv-

ing two Boston ferns as prizes to each school. That sounds like practical work for a Florist Club, does it not?

In ordering goods please add, "I saw it in HORTICULTURE."

STRONG FIELD - GROWN Hydrangeas

Ready for 7 in. and 8 in. pots, \$8.00 and \$10.00 per 100.

Begonia Gloire De Lorraine

First-class stock. 4 in., \$30.00 per 100; 2½ in., \$12.00 per 100.

Cash, please. Satisfaction guaranteed.

McRAE - JENKINSON CO., Cheswick, Pa.

AUGUST RÖLKER & SONS

Supply the trade with

PLANTS AND BULBS

For greenhouse or outdoor use, imported to order. Send for estimate. Address—

31 Barclay St., or P. O. Box 752, New York.

LET US QUOTE

on your wants in **Callas**, **Paper White Grand**, **Narcissi**, 13 cm. up. All Dutch **Bulbs**, **Wood Moss**.

D. RUSCONI, 32 West Sixth Street
CINCINNATI, OHIO

BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

ESTABLISHED 1802

Thorburn's Bulbs

BERMUDA EASTER LILIES, ROMAN HYACINTHS AND ALL HOLLAND AND OTHER BULBS

SEND FOR PRICES

Trade Bulb List now ready. PER 1000 SEEDS
Asparagus plumosus nanus seeds.....\$2.25
Asparagus plumosus robustus seeds.... 2.50
New crop *Giant Cyclamen* seed.

Cold storage Lily of the Valley pips, best possible grade, in cases of 1,000 and 3,000 pips each, at \$12.00 per 1,000.

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK

Everything of the Highest Grade

Boddington's
BULBS BLOOM

CATALOGUES FREE
Write for one to-day

ARTHUR T. BODDINGTON
342 W. 14th St., N. Y. City

PLANT NOTES.

Auctioneer W. J. Elliott says that the fall season's sales already show a substantial amount ahead of last year's record at the same date. In the stock recently sold for an old Newark (N. J.) estate was an enormous *Pandanus utilis*, estimated to be over 100 years old.

The dock strike which has been on for the past four weeks at Antwerp has seriously affected the palm and azalea shipments. So great has been the accumulation of goods at Antwerp that much freight has been sent round-about via Rotterdam, where much of it has had to remain for days awaiting room on the steamers. This is not only a great annoyance to consignors and consignees, but the delay in deliveries, which are now two to three weeks behind last year's dates, causes much solicitude as to the condition of the plants when they do arrive.

MOVEMENTS OF GARDENERS.

Alex. Adam, gardener for Alfred J. Vanderbilt, at Oakland Farms, Portsmouth, R. I., for the past three years, has resigned his position. The popularity of Mr. Adam with his fellow employes was impressively demonstrated by the presentation of a gold watch from the laborers and a silver tea set from the foremen and monthly men on the estate, at the time of his leaving.

"RESULTS SATISFACTORY."

Sept. 26, 1907.

Please discontinue ad; will have something else later. Results satisfactory.

W. H. & C. B. NEWMAN,
Akron, N. Y.

The success of "Flower Week" in the public schools of Grand Rapids, Mich., this fall, has encouraged the authorities to make this event an annual occurrence.

ANTON SCHULTHEIS

Wholesale Plant Grower,
College Point, - New York.

Price List of Foliage, Flowering
and Decorative Plants sent free on
application.

GERANIUMS

We have 100,000 in 2-inch pots ready to ship in prices running from \$2.00 per 100 for standard varieties to 75 cents each for novelties.

We will send one thousand, 50 each of 20 varieties Single and Double for \$18, or 500, 25 each of 20 varieties for \$9.25.

SEND FOR OUR SPECIAL CATALOGUE

R. VINCENT, Jr. & SONS CO.
WHITE MARSH, MD.

ORCHIDS

CATTLEYA MOSSIAE

Just arrived in perfect condition, plump and well-leaved.

We offer them as follows:

	Per 100
Fine Plants, with 6 or 7 bulbs,	\$100 00
Fine Plants, with 8 or 9 bulbs,	125 00
Fine Plants, with 9 or 10 bulbs, extra fine,	150 00
Fine plants, with 12 and 15 bulbs, extra fine,	225 00
Or in case lots, all sizes, aggregating 400 bulbs to the case,	75 00

These plants are the finest ever arrived in this country, so place your order at once while they last.

LACER & HURRELL, - Summit, N. J.

NEP. WHITMANI

2 1/4 in., \$5.00 per 100

NEP. WHITMANI

3 1/2 in., \$25.00 per 100

BOSTON FERNS

2 1/4 in., \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

Give Us a Trial on Azaleas.

250,000 fine shaped plants grown exclusively for us by Eugene Verveat De Vos, Swynearde near Ghent, Belgium, in his own gardens. Special prices upon request.

JOHN SCHEEPERS & CO.,
4 & 6 Old Slip, NEW YORK.

JOHN SCOTT

Grower of PALMS, FERNS and Other Decorative Stock

NEPHROLEPIS SCOTTII All the Year Round

Rutland Road and East 45th St.

Telephone 2890 Bedford BROOKLYN, N. Y.

A. LEUTHY & CO.

Importers and Exporters
Growers and Dealers in

DECORATIVE PLANTS

PERKINS ST. NURSERIES, ROSLINDALE MASS.

GODFREY ASCHMANN

Importer and Wholesale Grower
and Shipper

of *Araucaria Excelsa*, *Compacta*, *Robusta* and *Glaucia*; *Kentia Forsteriana* and *Belmoreana* *Azalea*, *Indica*, etc. Cultivator of Boston, *Scottii*, *Barrowsii*, *Elegantissima* and *Whitmanii* Ferns. Ferns for dishes, Cocos, etc. Write for prices.

1012 Ontario St., Philadelphia

CYCLAMEN

Splendens Giganteum Hybrids

In five colors; the finest strain known 3-in pots, ready, \$7.00 per 100; 4-in., \$15.00 per 100; 5-in., \$20.00 per 100. Satisfaction guaranteed.

S. S. SKIDELSKY, 1741 No 10 18th St., Philadelphia, Pa.

Our Fresh Stock of *Sphagnum Moss* and *Peat* is now ready for shipment. Our Moss is especially adapted for Decorating and Designing, is well packed, long and clean and gives the best of satisfaction to all customers. No old dry stock. Our Peat is the best grade, pure from inferior ingredients.

2 five Bbl. bales \$3.00 2 ten Bbl. bales \$5.00

This offer expires 15 days from date of paper. Cash with order. You take no risk in ordering from us.

THE OCEAN COUNTY MOSS & PEAT CO.,
Box 11, W. H. Stackhouse, Prop., Waretown, N. J.

THOUSANDS OF ORCHIDS

In sheath, bud and flower.

Write for particulars and catalogue.

JULIUS ROEHRS COMPANY,
Rutherford, New Jersey.

ORCHIDS

Arrived in perfect condition *Cattleya Mossiae*, also *C. Schroederæ*, *Laelia anceps*, *Epidendrum Vittelinum*, etc., etc. Write for prices.

LACER & HURRELL, Summit, N. J.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

... ORCHIDS ...

Just to hand, *C. Trianae*, *C. labiata*, *C. Mossiae*, *C. Intermedia*, *C. Schroederæ*, *C. Speciosissima*, *C. Citrina*, *C. Gaskelliana*, *Laelia anceps*, *L. Albida*, *L. majalis*, *L. Autumnalis*, *Epidendrum Vittelinum majus*, *E. Cooperianum*, *Oncidium Crispum*, *O. Varicosum*, *O. Cavendishianum*, *O. Luridum*, *Odonto. Citrosomum*. To arrive in a short time, *C. Dowiana*, *C. Aurea*, *C. Warnerii*, *Miltonia Vexillaria*.

GARRILLO & BALDWIN, SECAUCUS, N. J.

Just Arrived in First Class Condition

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LANDSCAPE GARDENING.

Read before the Congress of Horticulture, Jamestown Exposition, Norfolk, Va., September 23, 1907, by John C. Olmsted, Brookline, Mass.

Landscape gardening is the art of improving grounds for use and enjoyment with due regard to beauty.

Landscape gardeners should be educated in architecture, civil engineering and horticulture—in architecture, because all works of landscape gardening should be designed or planned in a way analogous to that in which buildings are planned to combine utility with beauty; in civil engineering, because to plan the improvement of ground involves surveys, topographical maps, draughting of plans, profiles, cross sections, drainage and masonry plans, specifications, and other technical training such as civil engineers get; in horticulture (including arboriculture), because every landscape gardening design calls for either trees, grass, shrubs, vines, hardy and tender plants and some or all of these.

To many it may seem unreasonable to place, in the education of landscape gardeners, a training in technical design ahead of a knowledge of civil engineering and of horticulture. It is true that most of the time of architectural students and practitioners is taken up with matters that would be of comparatively little or no use to the landscape gardener but in the absence of adequate means for thoroughly educating landscape gardeners in the aesthetic side of their profession, a training in architectural design is at present the best available for the purpose. It must not be inferred that architects can easily practice landscape gardening. The fact that they appreciate certain fundamental esthetic principles, no more fits them to practice landscape gardening than landscape painting or any other art to which those principles apply. It is certainly better that most architects should confine themselves to architecture.

Civil engineers should not be too much elated by the statement that a good knowledge of and experience in certain branches of civil engineering is more important in the education of landscape gardeners in the ability to design well than horticultural knowledge. Indeed, such a claim may seem paradoxical when we call to mind how many obtrusively ugly works of civil engineering there are in all parts of this country, and on the other hand how much horticulturists are concerned with beautiful flowers and garden plants.

The reason why a certain kind of engineering knowledge is more important to the landscape gardener than horticulture, as a means of developing his general designing ability, is that it has to do with larger and more complex problems of fitting land for human use.

The ability required to successfully design important municipal, railroad, river, canal and harbor works and other extensive plants involves a capacity for investigating physical and human and financial conditions, re-

quirements and limitations and for evolving a logical solution of each problem which is similar in a general way to the capacity possessed by successful architects. Engineering schools do more to educate that capacity than the ordinary methods of educating horticulturists do.

The most essential esthetic requirement of conspicuous works of civil engineering is that they should accomplish their purposes in an appropriate, pleasing and satisfactory way,—and that they should be made pretty by means of ornament applied as an after thought.

The Superiority of Beauty of Form and Proportion.

The main object of this paper is to call the attention of horticulturists to that particular idea—the importance of the esthetic principle that all visible works of man should be expressive and beautiful in their general form and main features before they are ornamented with mere decorative detail.

Esthetic ideas are difficult to explain without illustrations.

Among large constructions, we find a general regard for good appearance has always controlled ship builders. They made many mistakes, from a scientific point of view; they did not always make fast ships; they compelled sailors and passengers to submit to unnecessary inconveniences; but they strove always for such beauty of form and outline of hull and fittings, rake of masts, taper of spars, cut of sails, that sailing vessels have always been the delight of artists. And how conspicuously absent is all surface decoration and applied ornament.

It is shocking to imagine the hideous job the engineer of an elevated railroad would make of an order to build and rig a steel sailing ship, if he should entirely ignore the traditions of ship building and use stock dimension rolled steel beams, bars, angle irons, tubes, rods, and so forth, as he uses them in his elevated trusses and columns and brackets! How much simpler and cheaper it would be for the deck of a ship to be straight from bow to stern and to pitch straight from centre to sides like a flat tin roof! Yet all the demands of the shrewd owners for economy, and all the power of competition were unable to make shipwrights for countless generations build a ship that way. They knew it would be ugly and they wouldn't do it.

The beauty of the typical sailing vessel is a good illustration of the superiority of beauty of form and proportion, of graceful adaptation to useful purposes over a purely scientific and economical but ugly general form superficially decorated. Let us hope that investors and public opinion will more and more encourage civil engineers to take to heart this great esthetic principle that visible structures should be beautiful in form whether there is superficial decoration or not.

If a knowledge of horticulture and its allied crafts and sciences is to be regarded as less essential to the landscape gardener than a training in general architectural designing and in certain selected branches of civil engineering, it is not intended thereby to belittle the importance of a practical knowledge of hardy trees and other plants used in landscape garden-

ing works and of their cultivation, cost and esthetic qualities. Such knowledge is absolutely essential.

The point sought to be enforced is that the landscape gardener should be educated to design first the general plan for a given work, then its constituent parts and details in such a way that they will produce a consistent, well balanced, harmonious whole and to always keep in mind that the inherent, essential beauty of the whole, and its obvious and graceful adaptation to its main purposes are far more important than its superficial ornamentation.

(To be continued)

NEWS NOTES.

A new florist store has been opened at Wethersfield, Conn., by H. S. Griswold.

J. H. Playdon, Andover, Mass., has moved into his new store in the Arco building.

James Souden has started in the retail flower business at 106 Sixth street, Minneapolis, Minn.

Wm. Bruckner of Bayside, L. I., is suffering from a rupture and is in a precarious condition.

John Serah, formerly foreman for A. Leuthy, Roslindale, is about to open a retail flower store in Hyde Park, Mass.

G. W. Pool of Gloversville, N. Y., has won his case against Miss Milligan, who rented potted plants from him for decorating purposes in her millinery parlors.

Henry Bantleman of 1875 Amsterdam Ave., New York, had one of his delivery wagons smashed into last Saturday night and totally destroyed. Driver and horse escaped with slight injuries.

Wernz & Koehne, who have acquired the store of C. Christiansen, 67 East 10th St., N. Y., find it too small for their increasing business, and have now located at the southeast corner of Fifth Ave and 15th St.

J. M. Hodgson, Florist, Inc.—Judge Adams of the United States District Court has appointed William F. Upson receiver in bankruptcy for J. M. Hodgson, Florist, Inc., of No. 718 Fifth avenue and Newport, R. I., with a bond of \$500, and the sheriff and marshals were restrained from the disposing of the assets. It was stated that the plants in the greenhouses were worth \$1000 and needed immediate attention.—New York Commercial.

The stockholders of the New York Cut Flower Exchange have for the last twelve or fifteen years received a dividend of 10 per cent. In addition, in accordance with a resolution passed by the board of directors, May 11, 1907, authorizing the return to the stockholders of a portion of the accumulated surplus then on deposit in savings banks, on September 21 and 28, the treasurer paid out checks at the rate of \$17 per share to all the stockholders, an incident which goes to show that the corporation is in a most flourishing condition.

BUSINESS CHANGES.

L. Crancher has purchased the greenhouse and store of M. J. Dwyer, 1805 West Third Street, Chester, Pa.

W. G. Saltford Co., have leased the greenhouses of Relyea & Son, Poughkeepsie, N. Y. They will be run hereafter as the Saltford Flower Shop.

The floral business at the northwest corner of 75th street and Madison avenue, New York, formerly conducted by Al. Wentworth, will henceforth be under the management of Braxton, late with Fleischman.

The city council of Columbus, O., has finally appropriated \$6,000 for the improvement of Schiller park. Remodeling the greenhouse is the most important work contemplated

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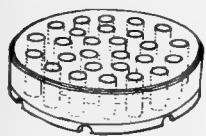
Sizes in Stock per 100

3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	5.00
4 x 12 x 24	9.00
6 x 12 x 24	10.50
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6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Sept. 11	TWIN CITIES August 31	PHILA. Oct. 3	BOSTON Oct. 3
ROSES				
Am. Beauty, Special.....	25.00 to 30.00	20.00 to 30.00	20.00 to 25.00	15.00 to 25.00
" Fan. & Ex.....	15.00 to 20.00	12.50 to 17.00	15.00 to 18.00	6.00 to 10.00
" No. 1.....	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	4.00 to 6.00
" Lower grades.....	4.00 to 8.00	3.00 to 5.00	3.00 to 8.00	.50 to 3.00
Bride, Maid, Golden Gate, F. & S.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	3.00 to 6.00
" " Extra.....	2.00 to 3.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
" " No. 1 & l.w. gr.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	.50 to 1.00
Liberty, Richmond, Fan. & Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	4.00 to 8.00
" Lower grades.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00
Chatenay, Morgan, Fan. & Sp.....	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	2.00 to 3.00
" Lower grades.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	1.00 to 2.00
Kaiserin, Carnot, Fan. & Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	3.00 to 5.00
" Lower grades.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	1.00 to 2.00
Killarney, Wellesley, Fan. & Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	2.00 to 3.00
" Lower grades.....	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	1.00 to 2.00
CARNATIONS				
Fancy and Novelties.....	2.00 to 3.00	1.50 to 2.00	2.50 to 3.00	1.50 to 2.50
Ordinary.....	.75 to 1.00	.75 to 1.00	1.00 to 2.00	1.00 to 1.50
MISCELLANEOUS				
Cattleyas.....	50.00 to 75.00	35.00 to 60.00	50.00 to 60.00	50.00 to 75.00
Lilies.....	10.00 to 12.00	10.00 to 12.00	12.00 to 15.00	6.00 to 8.00
Lily of the Valley.....	3.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Asters.....	1.00 to 3.00	1.00 to 2.00	1.00 to 2.00	.50 to 1.00
Gladioli.....	2.00 to 4.00	2.00 to 6.00	3.00 to 5.00	.50 to 2.00
Adiantum.....	1.00 to 1.50	.75 to 1.00	1.00 to 1.50	.50 to 1.50
Smilax.....	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00	8.00 to 12.00
Asparagus Plumosus, strings.....	35.00 to 50.00	35.00 to 50.00	50.00 to 50.00 to 50.00
" " & Spreu. (too bchs.)	35.00 to 50.00	35.00 to 50.00	35.00 to 50.00	20.00 to 50.00

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FLOWER MARKET REPORTS

BOSTON Prices are not advanced on any particular commodity, but good stock is generally scarce owing to the storm of rain on Sunday, which finished up much of the garden material which had been filling in the demand for florists' work. Asters, gladioli and dahlias suffered considerably. Carnations of better quality are being received, but they are still far from standard and bring all that they are worth and sometimes more than they are worth. The roses are temporarily short in supply but a few bright days will no doubt change the complexion of the market. A few chrysanthemums are being received but they are small and really inferior to a first-class aster.

The warm week which **BUFFALO** caused heavy wind and rain storms did much damage among outdoor flowers and fruits. Asters and gladioli suffered considerably, especially the former. The market opened up brisk on Monday and everything was active; roses, especially white, were in heavy demand, with a rather short supply, the cool, dark weather cutting the supply to one-third of receipts of the previous week. Longiflorum, rubrum and album lilies were in good demand and helped considerably in filling floral work orders. Lily of the valley and gardenias sold well, while violets, which have improved in quality, moved better than in the previous week. Carnations came in more plentifully, but are not given a chance to remain with the wholesaler long, being snatched up as soon as taken from the box. Enchantress is leader and some excellent stock was had, long stems and blooms fairly good size; white and other varieties not so good in quality. Dahlias are helping out and taking the place of asters. Gladioli are not so plentiful, there being no trouble to dispose of the fancy colors, while the mixed ordinary sorts await the cemetery florist after a few days floating along. Greens are in good supply and quite active. The shipping trade has been heavy, and it looks as if the country florists were having their hands full with business.

The supply of cut **CINCINNATI** flowers for the past week has been very meagre. Cosmos and dahlias are about the only out-door stock left. Carna-

tions are not blooming very freely yet which has caused a great demand for roses. The supply of lilies is still limited. Lily of the valley is being forced in quantity in anticipation of a good demand for October weddings. Violets are improving and find a better demand. Several of the craft report large orders booked for this month.

DETROIT Local business conditions are rather unfavorable; plenty of time to do work and plenty of room for flowers. While the weather was such as to retard buying, still the scarcity of flowers prevented the usual displays in the windows. The wholesaler may not always be considering this expense item of the retailer still the latter knows only too well that he must often sacrifice some of his profits by displaying choice flowers in the window to encourage trade but which are in many instances a complete loss to him.

INDIANAPOLIS Business has been unusually brisk the past week, there being a good demand for almost everything. Dahlias are in good supply and quality and make an excellent substitute for asters. Carnations are more plentiful every day, flowers fine, but too short in stem. Stock in general is improving, especially roses. Extra fine Carnot and Kaiserin are in good demand and all grades of Beauties are called for more than ever before at this time of the year. Chrysanthemums are to be had in almost any color, but the price and keeping quality are unsatisfactory. Some violets are seen but quality not up to the standard. There is a good demand for longiflorum lilies and lily of the valley; also for greens, especially those used for decorations. Good plumosus and Sprengeri are to be had while smilax is very scarce.

NEW YORK Last week was a decidedly dull period in this market. The present week starts off under quite different conditions due to the light receipts caused by the cold weather and the heavy rainfall which spoiled for the time being asters, gladioli, dahlias and other garden product for market use. The scarcity of flowers has not been seriously felt, however, as the de-

mand is very light on most lines, the only pronounced call being for blooms of the highest grade, and the street speculator being still the only bidder for the low quality material. *Cattleya labiata* is coming in more freely and in superb shape. Longiflorum lilies are as good as the best ever seen in this market. Carnations seem to come along with unprecedented slowness. A few good chrysanthemums are seen. Violets are present in considerable numbers, but they are of poor quality and, furthermore, people are not ready for them.

PHILADELPHIA General business continues steadily improving. Dahlias are in their heyday. The red varieties such as Katherine Duer and Lyndhurst are the best sellers closely followed by Kriemhilde and Nymphaea in pinks. There is demand for a good yellow—a better keeper than Arabella. Roses are in good demand, whites especially. Beauties sold very good early part of the week but dropped off later. Killarneys are of fine quality at present. Carnations are not a big factor but there are some very good Winsors and Beacons coming in for the season. *Cattleyas* are very choice at present with demand excellent. Lily of the valley has improved both in quality and demand. Easter lilies are quite scarce. Cosmos cuts quite a figure in the market and if carefully packed in small bunches with plenty of tissue paper ships well to long distances; but there is no use trying to handle this rather delicate subject in the ordinary rough and ready manner. Asters and gladioli are about over.

WASHINGTON Despite the fact that most of the Washingtonians have returned to the city and that the "season" is almost upon us, there was not the activity in the cut flower business last week that one would reasonably expect, owing to the almost incessant inclement weather. As the equinoctial period is passed and pretty weather with us once more, the trade have a right to be hopeful of results from now on. There are a fine lot of dahlias now shown. Some carnations are coming in, but are short of stem. There is still a glut of asters, which are hard to dispose of at any price. Cosmos will be in in abundance soon, and if the present fine weather continues, both it and dahlias will be fine.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Sept. 28 1907	First Half of Week beginning Oct. 2 1907		Last Half of Week ending Sept. 28 1907	First Half of Week beginning Oct. 2 1907
Roses					
Am. Beauty, fan and sp.	15.00 to 25.00	15.00 to 25.00	Carnations.....	.75 to 2.00	.75 to 2.00
“ extra	10.00 to 12.00	1.00 to 12.00	Violets .....	.15 to .40	.15 to .40
“ No. 1.....	6.00 to 10.00	6.00 to 10.00	Cattleyas.....	50.00 to 60.00	50.00 to 60.00
“ Lower grades	1.00 to 3.00	1.00 to 3.00	Lilies	10.00 to 12.00	10.00 to 12.00
Bride, 'Maid, Golden Gate, fan & sp	3.00 to 5.00	3.00 to 5.00	Lily of the Valley.....	1.00 to 3.00	1.00 to 3.00
“ “ lwr.grds. ....	.50 to 2.00	.50 to 2.00	Asters .....	.50 to 1.00	.50 to 1.00
Liberty, Richmond, fancy & special	3.00 to 5.00	3.00 to 5.00	Gladiol.....	.50 to 2.00	.50 to 2.00
“ lower grades ..	.50 to 1.00	.50 to 1.00	Chrysanthemums	40.00 to 60.00	40.00 to 60.00
Kaiserin, Carnot, fancy and spec.	3.00 to 6.00	3.00 to 6.00	Adiantum .....	.50 to .75	.50 to .75
“ lower grades ..	.50 to 2.00	.50 to 2.00	Smilax	8.00 to 12.00	8.00 to 12.00
Killarney, Wellesley, fan. and spec.	3.00 to 6.00	3.00 to 6.00	Asparagus Plumosus, strings...	20.00 to 30.00	20.00 to 30.00
“ “ lower grades.	.50 to 2.00	.50 to 2.00	“ “ & Spen. (too bchs.)	10.00 to 25.00	10.00 to 25.00

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BRONZE GALAX, \$1.25 per 1000. SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25
Hammond's Old English Liquid Putty, \$1.25 per Gal. Hammond's Greenhouse White Paint, \$1.50 per Gal.

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Am. Beauty, Fan, and Sp..... to 25.00 to	20.00 to 25.00	20.00 to 25.00
" Extra	15.00 to 20.00	12.00 to 15.00	15.00 to 20.00	12.50 to 15.00
" No. 1	10.00 to 12.50	6.00 to 8.00	8.00 to 10.00	8.00 to 10.00
" Lower grades	6.00 to 8.00	3.00 to 4.00	3.00 to 8.00	..... to 5.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	6.00 to 8.00	6.00 to 7.00	..... to 8.00
" Extra .....	..... to .....	..... to .....	..... to .....	..... to
" " " No. 1 & lw. gr.	3.00 to 4.00	3.00 to 5.00	2.00 to 4.00	4.00 to 6.00
Liberty, Richmond, Fan, & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	..... to 6.00
" Lower grades	3.00 to 4.00	3.00 to 5.00	3.00 to 6.00	..... to 4.00
Chatenay, Morgan, Fan, & Sp. ....	..... to .....	..... to .....	..... to .....	..... to
" Lower grades .....	..... to .....	..... to .....	..... to .....	..... to
Kaiserin, Carnot, Fan, & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 7.00	8.00 to 12.00
" Lower grades	3.00 to 4.00	3.00 to 5.00	3.00 to 6.00	4.00 to 6.00
Killarney, Wellesley, Fan, & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 7.00	6.00 to 8.00
" Lower grades	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00	3.00 to 5.00
CARNATIONS				
Fancy and Novelties .....	..... to 2.00	..... to	1.50 to 3.00	..... to 3.00
Ordinary .....	..... to 1.00	1.00 to 2.50	.75 to 1.00	..... to 1.00
MISCELLANEOUS				
Violets .....	..... to .....	..... to .....	.50 to .60	..... to .50
Cattleyas .....	..... to .....	..... to	50.00 to 60.00	..... to
Lilies	12.50 to 15.00	15.00 to	4.00 to 15.00	15.00 to 20.00
Lily of the Valley	4.00 to 5.00	3.00 to 4.50	3.00 to 4.00	4.00 to
Dahlias .....	..... to .....	..... to	1.00 to 3.00	..... to
Asters .....	.50 to 2.00	1.00 to .....	.25 to 1.50	1.50 to 3.00
Gladioli	2.00 to 3.00	3.00 to 5.00	2.00 to 3.00	2.00 to 4.00
Adiantum .....	..... to 1.00	1.50 to .....	.50 to 1.50	..... to 1.50
Smilax	12.50 to 15.00	15.00 to .....	..... to 15.00	15.00 to 20.00
Asparagus Plumosus, strings to 40.00	50.00 to 75.00	40.00 to 50.00	35.00 to 50.00
" " & Spreng. (100 bchs.) to 25.00	30.00 to 70.00	25.00 to 35.00	30.00 to 50.00

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B. J. Dysart, 28 State St., Boston.
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Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Adiantum Hybridum, 2-12 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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Fall delivery. Our stock will please you.
J. W. Dunford, Clayton, Mo.

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Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 per 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosus, 3 1-2-in. heavy, \$7 per 100. Sprenger, 1 1-2-in. heavy, \$6 per 100. Smilax, 2 1-2-in. \$2 per 100. Scranton Florist Supply Co., Scranton, Pa.

Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Elliott St., Buffalo, N. Y.

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Stump & Walter Co., 50 Barclay St., New York.

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BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

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Aug. Rolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs.

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Johnson Seed Co., 217 Market St., Phila.

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Carnation White Perfection.

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Getmore Box Factory, Inc., Belleville, Ala.
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Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

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Small Evergreens.
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Ferns, 4-in. Whitman, 30c. Barrows, 15c. C. E. Ervin, Latonia, Ky.

Bostons, 2 1-2-in., 4c.; 3-in., 8c.; 4-in., 15c.; 5-in., 25c.; 6-in., 40c.; 7-in., 65c.; 8-in., \$1 to \$1.50; 10-in., \$1.50 to \$2. J. W. Dunford, Clayton, Mo.

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Mills, the Florist, Jacksonville, Fla.
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Long distance telephone connections.

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Forget-me-nots, 100,000 Strong Stocky Plants, alpestris blue and white, Victoria, Robusta grandiflora, Eliza Fanrobert, \$2.50 per 1000. Gustave Freytag, Hilltop Pl., W. Orange, N. J.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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GERANIUMS

R. Vincent, Jr. & Sons, White Marsh, Md.
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Geraniums, Strong stock. 3-in., 4c., 3 1-2-in., 6c. Rooted cuttings, \$15 per 1000. J. W. Dunford, Clayton, Mo.

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Arthur Cowee, Meadowvale Farm, Berlin, New York.
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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.
Augusta gladioli, and white and light. Rowehl & Granz, Hicksville, L. I., N. Y.

GLASS

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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HARDY FERNS AND SUPPLIES

A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
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Michigan Cut Flower Exchange, 38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.

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HARDY HERBACEOUS PLANTS

Hardy Herbaceous Plants. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

HARDY PERENNIAL PHLOX

Henry A. Dreer, Philadelphia, Pa.

In writing to Advertisers kindly mention Horticulture

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Bay State Nurseries, N. Abington, Mass.
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Eastern Nurseries, M. M. Dawson, Mgr.,
Jamaica Plain, Mass.
Choice Hardy Perennials.
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T. H. Chivers, Amesbury, Mass.

Hardy Perennials: extra large field-grown clumps, three dollars and four dollars per hundred. Delphinium, Coreopsis, Digitalis, Platycodon, blue and white, Anemone, Hibiscus, Gaillardia, and many other standard species. Samples sent by express on receipt of stamps to cover cost and packing. James Krewson & Sons, Cheltenham, Montgomery County, Pennsylvania.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Hitchings & Co., 1170 Broadway, N. Y.
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Johnston Heating Co., Lexington Ave. and 29th St., N. Y.
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HYDRANGEAS.

McRae-Jenkinson & Co., Cheswick, Pa.
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INSECTICIDES.

Nicotide kills all greenhouse pests.
P. R. Paethorne Co.,
Eleventh St., Owensboro, Ky.
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Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil Insecticide.
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IRISES

We have 100,000 Japan irises, the finest collection in this country. Rowehl & Granz, Hicksville, L. I., N. Y.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 12 W. Broadway and 227 Greenwich St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

MUSHROOM SPAWN

Wm. Elliott & Sons, 201 Fulton St., New York.
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NICO-FUME

Kentucky Tobacco Product Co., Louisville, Ky.

NIKOTEEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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The Conard & Jones Co., West Grove, Pa.
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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

Choice Evergreens, Blue Spruce, etc.
Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

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Lager & Hurrell, Summit, N. J.
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Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange, 68 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Perry Green, 63 Howard Ave., Quincy, Mass.

100,000 Pansy Plants assorted Var. named, \$3 per 1000; Giant flowering mix, \$2.50 per 1000. Gustave Freytag, Hilltop Pl., W. Orange, N. J.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat, Leaf-Mould, Live Sphagnum moss, Baled Sphagnum moss, Green Clump moss, etc. Jobbers' list on application. C. W. Brownell & Co., Walden, N. Y.

PEERLESS GLASS REPAIR CLAMP

Alex Klokner, Wauwatosa, Wis.
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PEONIES

Cottage Gardens Co., Queens, N. Y.
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George Hollis, 128 Hollis St., So. Weymouth, Mass.

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PIPE COUPLINGS AND BOILER TUBES

Constantly on hand merchantable sound second hand pipe with new threads and couplings; also new galvanized pipe. 5000 feet 3-in. sound second hand boiler tubes with 2 1-2-in. standard pipe threads and couplings. 1000 feet 2 1-2-in. boiler tubes with 2-in. standard pipe threads and couplings very suitable for greenhouse heating. 10,000 feet 4-in. sound boiler tubes cleaned with square cut ends in any length with corking babbles if required. Pfaff & Kendall, Foundry Street, Newark, N. J.

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PLANT STANDS

The Wittbold plant stand, \$18.00 per doz.
The Geo. Wittbold Co., 1657 Buckingham
Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PRIVET

Trained Privet: Pyramidal and standard
forms; three thousand shapely plants; five
to eight feet; excellent for screening and
ornamental purposes; at trifling cost as
with Bay Trees. Prices on application.
James Krewson & Sons, Cheltenham,
Montgomery County, Pennsylvania.

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John Waterer & Sons, Ltd., American
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Lady Gay Roses.

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Low-budded roses, No. 1, \$95.00; No.
1-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.

The beautiful new pink rose, MISS
KATE MOULTON is the queen of all
pink roses. It's a winner and you should
grow it. Price \$30.00 100; 500 \$125.00;
1000 \$200.00; 5000 and upwards \$175 per
1000. Minneapolis Floral Co., Minneapolis,
Minn.

SEEDS

T. J. Grey Co., 32 So. Market St.,
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Joseph Breck & Sons
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O. V. Zangen, Hoboken, N. J.
Cyclamen Seed.
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Johnson Seed Co., 217 Market St., Phila.
J. A. McDowell, Ap. 167, City of Mexico.

I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

SMILAX

Smilax, 2 1-2-in. pots, \$2 per 100. Cash.
Wm. Schaffer & Son, Dover, Del.

SPHAGNUM MOSS

W. H. Stackhouse, Prop., The Ocean County
Moss & Peat Co., Waretown, N. J.
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Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIREA

Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.

VENTILATING APPARATUS

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VENTILATING MACHINERY. New
Model encased, self-oiling gear; Standard
Model Open Gear. Lord & Burnham, 1183
Broadway, N. Y.

VIOLETS.

Malcolm Orr, N. Saugus, Mass.

Dorsett Violets, \$2.25 per 100. Cash.
Wm. Schaffer & Son, Dover, Del.

5000 clumps California violets, ready now,
finest stock in the west, 4 1-2 c. 250 or
more at 4c. J. W. Dunford, Clayton, Mo.

Violets—30,000 strong, healthy, field-
grown Campbell and California No. 1, at
\$2.50 per 100; \$20 per 1,000. No. 2, good
plants, at \$1.50 per 100; \$12 per 1,000.
Satisfaction guaranteed or money returned.
None better. The California, extra large
and fine clumps, packed to Carry Safely.
I have shipped over 10,000 already with
entire satisfaction. Chas. Black, Hights-
town, N. J.

WIRE STAKES

W. W. Coles, Kokomo, Ind.
Galvanized Wire Stakes.
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Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 88 40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

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CARE OF HEATING PLANT WHEN NOT IN USE.

(A paper read before the Society of Iowa Florists, by G. H. Bancroft, Cedar Falls.)

I have been assigned to speak as to the care of steam boilers in summer. Perhaps the best I can say would be to tell how we care for our own. When we quit firing, generally in May or first of June, the flues are thoroughly blown, then scraped and blown again. The entire boiler is cleaned on the outside, back and front, and thoroughly painted with asphalt paint or oil. All the flues are swabbed out with oily rags. All ashes are removed from fire box and soot from rear of boilers. The doors are taken out or opened and

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

Help wanted—General storeman and designer; wages, \$15 per week. H. E. Wilson, 88 Main St. E., Rochester, N. Y.

SITUATIONS WANTED

YOUNG MAN with some experience would like position as assistant gardener either private or commercial. Apply N. care Albert Jay, Hingham, Mass.

SITUATION WANTED by gardener with good record, private place preferred. Married, two children. Address N., care HORTICULTURE.

SITUATION WANTED in general greenhouse work; single, age 35, five years' experience, commercial. Address W. W., care HORTICULTURE.

WANTED. Position as manager of plant and fern growing establishment. Experienced. L., care HORTICULTURE.

FOR SALE

Conservatories and Greenhouses

FOR SALE

To take down; also, Pyramidal and Standard Bay Trees and other plants of the estate of the late C. P. Grimmer, rear of 56 Rockview Street, Jamaica Plain, or 31 West St., Boston, Mass. This offer good till Oct. 19, 1907.

FOR SALE—Well established florist business with greenhouses in rear of store. E. C. Thinnies, 245 De Kalb Avenue, Brooklyn, N. Y.

MISCELLANEOUS WANTS

WANTED—Second-hand Hot Water Heater. H. Taylor, Box 132, Quincy, Mass.

all painted inside and out. The floor and dampers are left wide opened so that a thorough circulation of air is maintained. The inside of the boilers are washed out and manholes are taken out both top and end. This also gives a circulation of air inside of boilers. Our boilers are placed on top of ground in a large high stone shed forty foot square so that we have a good circulation of air and there is no dampness or sweating in the boilers. Our automatic pump used for returning condensed steam to the boilers is dismantled and everything is left wide open so that any dampness that may accumulate drains off from the pump and pipe.

When we used hot water we kept boilers full of water; and although on top of ground in open sheds, they sweat considerably, consequently flues soon rusted out. With a hot water boiler, as most of them are built, it is almost an impossibility to prevent this sweating, but we think it preferable to keep them full of water during summer. A damp boiler shed is a yearly expense in repairs on boiler, and in a few years your boilers are rusted out so they are unsafe and the cost of repairs will soon equal the cost of a good airy boiler room and a trap or pump for returning condensed steam to boiler.

?

Is Your Name In The Above List? If Not, Why Not?

BOILER EXPLOSION AT THE KELLOGG GREENHOUSES.



Our illustrations depict more graphically than we can describe, the havoc occasioned by the explosion of a steam boiler at the greenhouses of George M. Kellogg, Kansas City, Mo., early on the morning of September 26. Had the disaster occurred but 45 minutes later the entire working force would have been on hand and serious loss of life would have been recorded. The boiler that exploded was one of a bat-

tery of five. The effect was terrific, the other boilers being thrown from their foundations, about 100,000 feet of glass being destroyed, timber, brick and stone being scattered in all directions and the country shaken for a radius of several miles. The dome of the boiler, weighing 500 lbs. was carried 600 feet. Mr. Kellogg writes that the damage outside of the loss on plants and their produce is not less

than \$35,000. He says that the gauge had been shut off the boiler and the steam valve letting the steam into the houses closed tight. Two temporary boilers have been put in position and glass is arriving by the car load but lumber for repair work will be hard to obtain. Mr. Kellogg has our warm sympathy and our sincere hope that cold weather will hold off until he gets his houses closed in.

OBITUARY.

Edgar Sanders.

Not expected, but nevertheless touching, comes the news of the death of Edgar Sanders, dean of the Chicago horticultural profession, at the ripe age of 80 years. Mr. Sanders was born Oct. 10, 1827, in Sussex, England, the son of a gardener and one of a large family of children who had to begin early to earn something. He commenced his career in gardening at the age of 13 years at Wm. West's nursery, after which he held various positions in several localities until he came to America in 1853, where his first employment was as gardener to Gen. J. F. Rathbone at Albany, N. Y., whence in 1857 he went to Chicago and started as a florist with a small greenhouse. He is said to have opened the first flower store in Chicago, under the Sherman House, in 1867, and later moved to Dearborn street. He lost everything in the fire of 1871. He held in succession several public offices and did considerable writing for the Country Gentleman, Prairie Farmer and other periodicals and later became the regular Chicago correspondent of the Florists' Exchange, continuing this work until incapacitated by failing health. He served for many years as the treasurer of the Chicago Florists' Club. He was the first president of the American Association of Nursery-

men, Seedsmen and Florists, and was again elected president of that body in 1884, which position he held at the time of the secession of the Society of American Florists, whose first meeting at Cincinnati in 1885 he attended.



THE LATE EDGAR SANDERS

A few years ago he was stricken with a paralytic attack and ever since has been confined to the home of his daughter, which has become a Mecca of the profession locally, and of loving friends visiting in Chicago, who have been glad to call upon the old gentle-

man and help to brighten the tedious hours with their presence. He had failed rapidly of late, and his demise was known to be imminent all of last week. The funeral was numerously attended by members of the Chicago Florists' Club and the profession generally.

Other Deaths.

Barney Nailor, Newville, Pa., passed away on September 21 at the age of 74.

W. S. Taylor, for the past seven years florist at the Morton House, Grand Rapids, Mich., died Sept. 22 at the age of 57.

Mrs. W. H. Kuebler of Brooklyn, N. Y., wife of W. H. Kuebler, the wholesale commission dealer, passed away on Sept. 19.

Charles Schleeter, a florist near Louisville, Ky., died suddenly on Sept. 21. He was 42 years old. A wife and six children survive him.

John C. Hepler, who was superintendent of Charles Evans Cemetery, Reading, Pa., for 27 years, died on September 26. Mr. Hepler was born in Reading April 17, 1829.

F. H. Reynolds, the pioneer nurseryman of the River Raisin Valley at Monroe, Mich., died Sept. 28th, nearing his 90th birthday. He was born in Delaware County, N. Y., and came to Monroe, Mich., when only 20 years old starting in the nursery business.

WILSON'S PLANT OIL

If you want to make money there is only one way. That is to have clean stock and the only way to get it is by using WILSON'S PLANT OIL.

New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
Yours very truly,
GEO. A. SKENE.

Florham Farms, Madison, N. J., December 8, 1906.
Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
Yours truly,
A. HERRINGTON.

PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

ANDREW WILSON, Dept. 8.

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Selling Agents for New England, R. & J. FARQUHAR & CO., 6 and 7 South Market St., Boston, Mass.

GREENHOUSES BUILDING OR CON-TEMPLATED.

New.

Newport, Ky.—Frank Benson, conservatory.

Woburn, Mass.—J. W. Studley, one house.

Whitman, Mass.—Fred Black, one house.

Hillsboro, Tex.—New Southland Nursery Co., house 16 x 60.

Additions.

Danbury, Ct.—T. H. Judd, one house.
N. Easton, Mass.—J. McFarland, one house.

Joliet, Ill.—Joliet Nurseries Co., one house.

Eldorado, Kan.—W. Noble, range of houses.

New Haven, Conn.—Sokal Bros., one house.

Brockton, Mass.—A. A. Reed, improvements.

Hampstead, N. H.—Albion D. Emerson, house 20x100.

Elmsford, N. Y.—Scott Bros. house for sweet peas, 75 ft.

Woodside, N. Y.—Wm. Amos, Jr., four carnation houses.

Mt Clemens, Mich.—Aug. Von Boeselager, house 29 x 42; John Breitmeyer's Sons, bulb house 24 x 100.

LIST OF PATENTS.

Issued September 17, 1907.

\$66,946. Agricultural Machine. Alfred A. Lax, George W. Hinson and James I. Willhott, Graham, Texas.

\$66,088. Propagator and Plant Stand. Richard L. Templin, Cleveland, Ohio.

\$66,209. Two Row Cultivator. Lincoln H. Millen & James A. Suthers, Beatrice, Nebr.

\$66,340. Combined Planter and Fertilizer Distributor. John R. Davidson, Monticello, Ga.

\$66,450. Subsoiler Attachment for Lister-Plows. George W. Ferguson, Logan, Kans.

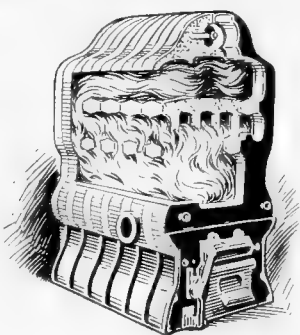
\$66,455. Fertilizer Distributor. James T. Gantt, Macon, Ga.

\$66,782. Manure Loader. Bennie P. Hanson, Farkersburg, Iowa, assignor of one-half to G. D. Williams, Elmore, Minn.

INCORPORATED.

Eagle Nurseries Co., Camden, N. J.; general nursery business, real estate, etc., by L. M. Stiles, Robt. Peacock and Charles Bridges. Capital \$100,000.

"The Best Investment Ever Made"



is the verdict of one of the largest rose growers who placed two of these GREENHOUSE BOILERS instead of two others of well known make.
Estimates furnished for heating plants erected complete, or for material only.

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Main Office and Factory:
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Sash opening apparatus and all kinds of greenhouse structural material.



The Best Bug Killer and Bloom Saver

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OWENSBORO, KY.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

In the estimate recently submitted to the city comptroller the commission states that \$1,054,028.75 will be required to care for Fairmount Park, Philadelphia. The increase of about \$500.00 over last year is apportioned to contemplated improvements and extensions.



STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2 " " "	5.25	60 8 " " "	3.00
1500 3 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/2 " " "	5.80	48 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	3.60
320 5 " " "	4.52	24 12 " " "	4.80
144 6 " " "	3.16	12 14 " " "	4.80
		6 16 " " "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower POTS

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28th and M Street WASHINGTON D. C.

Cattle Manure In Bags

Shredded or Pulverized

Best and safest manure for florists and greenhouse use, absolutely pure, no waste, no danger. Write for circulars and prices.

The Pulverized Manure Co.,
31 Union Stock Yards, Chicago

CALVANIZED WIRE STAKES

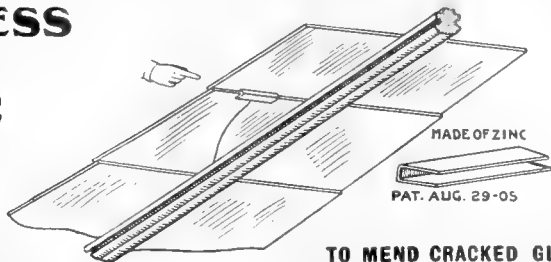
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3 ft.\$6.00 per 1000 5 ft.\$ 9.90 per 1000
4 ft. 7.95 per 1000 6 ft.11.90 per 1000

W. W. COLES, Kokomo, Ind.

The FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 28,000,000 sq. ft. of glass. For particulars address John C. Esler, Sec'y, Saddle River, N. J.

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**PEERLESS
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TO MEND CRACKED GLASS
 IMMEDIATELY AND PERMANENTLY

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John C. Moninger Co.
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STEEL RETURN TUBULAR Steam BOILERS Water



What F. R. Pierson says:

JOHNSTON HEATING CO., New York City.
 Gentlemen:—The internally fired steel boilers which you installed last fall are giving us great satisfaction. They heat very quickly and are very economical. We are exceedingly well pleased with them and they have more than met our expectations.—Very truly yours,
 F. R. PIERSON CO.

JOHNSTON HEATING CO.
 Lexington Ave. and 29th St., - NEW YORK CITY
 WRITE FOR CATALOG AND PRICES

PATENTS

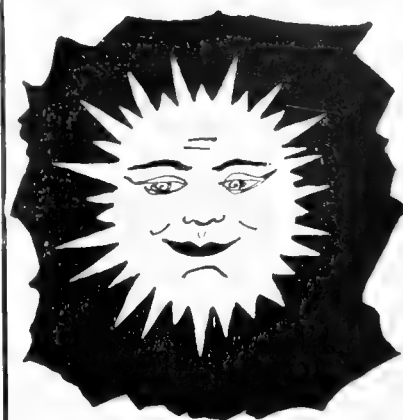
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the wood that was used for mummy cases by the ancient Egyptians and is lasting yet. If you get one of the

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(they last a lifetime) you will get more as your business grows. They are carefully designed, every part fitting its exact place. If you once use the **FOLEY**

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its high excellence will appeal to you and show that it is the **BEST** in every way. Get descriptive pamphlet on it. Write us for anything needed and receive our catalog of

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 32 feet or longer
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ANCHOR GREENHOUSE HOSE

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PLANT BED CLOTH
 gives shade and still allows free circulation of air.

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RIGHT FIT or TIGHT FIT

There is an advantage in knowing your business, for instance, the heating question: a lot of people think they know a good bit about it and tell you the greenhouse men are robbing you. And sometimes you believe it, so in goes a tight fit boiler and piping—that just does your work and no margin. When a cold snap comes you have to crowd your boiler—and be on the anxious seat 'till the mercury lets up. You have burned more coal and got less results for what you burned. Your boiler has been overworked and that is no good thing for any boiler. We know greenhouse heating thoroughly, and refuse to skimp the boilers or radiation. That means you pay a right price for the right thing—and no more. Get in touch with us.

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GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway,

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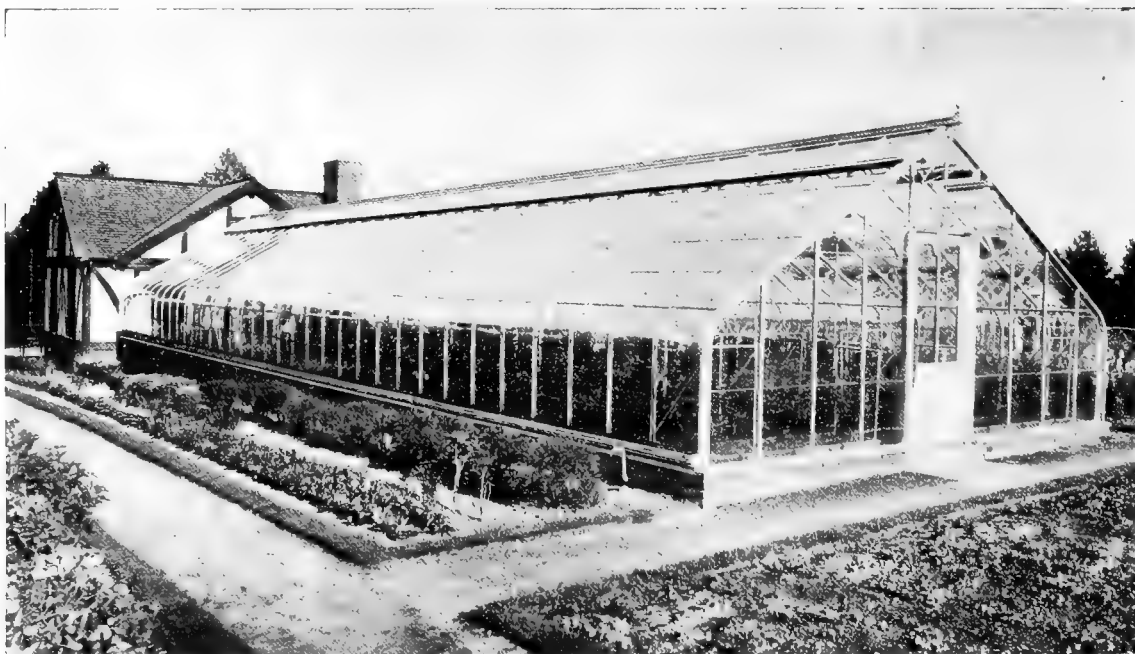
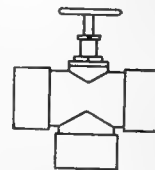
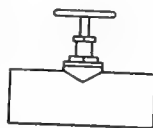


in your heating proposition we can send you in double quick time. Valves, elbows, hubs, headers in standard sizes for caulked or screwed joints. L & B Special Fittings for boiler tube work. We can fit you out from A to Z. Write, wire or 'phone.

We make every part of a greenhouse but the glass.
We sell any part.



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Office, 1133 Broadway,
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The point is this: Here is a house that you can stand outside of and have an almost unobstructed view of what is inside—that means there are no heavy structural hindrances to obstruct your view. By the same token, all possible light reaches the plants. No gutter at eaves—light supporting members—and wide glass spacing *only* will give such growing results as U Bar houses hold the record for. Get to know the U-Bar construction whys. The catalog points them out—besides it's interesting reading. **Pierson U-Bar Company,** Designers and Builders *U-Bar Greenhouses,* Metropolitan Building, 4th Avenue and 23rd Street, New York.

HORTICULTURE

Vol VI.

OCTOBER 12, 1907

No. 15



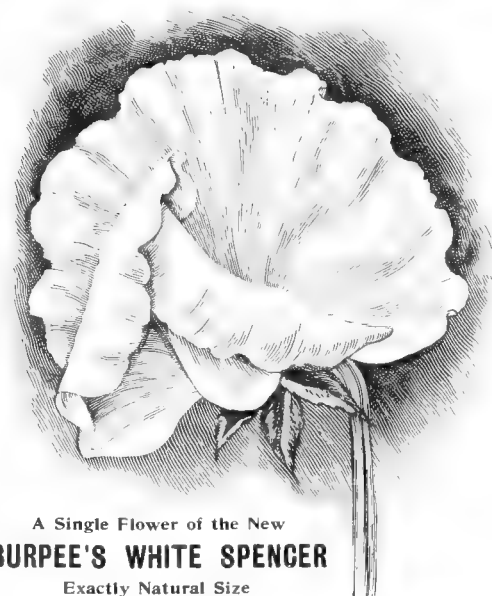
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This historic tree is one of the chief points of interest to visitors at the Jamestown Exposition.

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EVERY SATURDAY
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Subscription, \$1.00*

Burpee's Two New "SPENCERS" for 1908



A Single Flower of the New
BURPEE'S WHITE SPENCER
Exactly Natural Size

Burpee's White Spencer produces in the greatest profusion flowers of enormous size that are *absolutely pure white*. It is white-seeded and comes true to the Countess Spencer type. The standard is *decidedly waved*, crinkled and fluted; the wavy wings are so folded, that the keel is almost hidden. The standard measures from one and three-quarters to two inches across by one and three-eighths to one and five-eighths inches in depth. The wings are fully an inch wide and nearly as deep as the standard. The flowers are borne three and four to the stem and are uniformly well placed. The stems are extra strong and measure from twelve to fifteen inches in length.

The vines are most vigorous in growth, with heavy foliage, and attain a height of from ten to twelve feet. They are nearly covered with bloom, while the flowers retain their enormous size throughout the season. Of fine substance the magnificent flowers are unsurpassed for cutting and for keeping after being cut.

In sealed packets containing ten seeds each: Per pkt. 15 cts., 2 pkts. for 25 cts., \$1.00 per doz. pkts., \$7.00 per 100 pkts.

In sealed packets containing 25 seeds each: Per pkt. 5 cts., 5 pkts. for \$1.00, \$2.00 per doz. pkts., \$13.75 per 100 pkts.

Burpee's Primrose Spencer

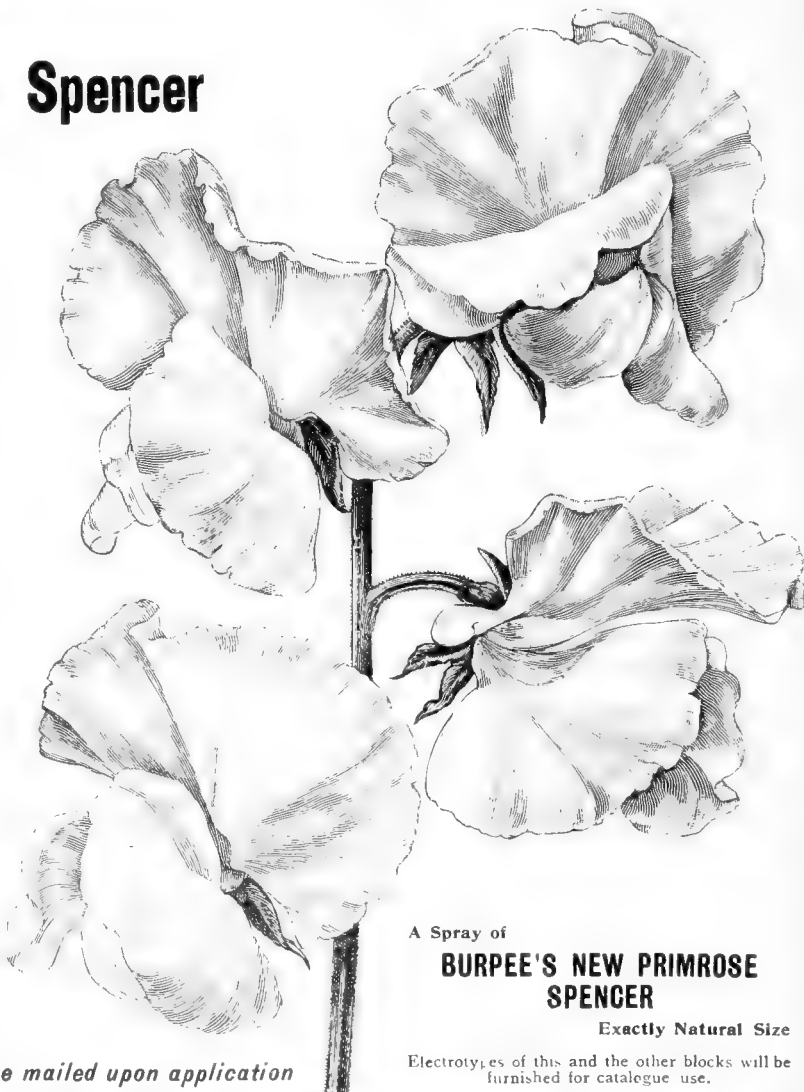
This is a fitting companion to *Burpee's White Spencer*. The vine is equally as thrifty and free flowering, but slightly shorter in growth, attaining a height of eight to nine feet. The flowers are well placed on strong, thick stems, ten to twelve inches long, and are borne never less than three flowers, and sometimes four flowers to the stem—as shown in illustration. The standard measures one and three-quarter inches to nearly (if not quite) two inches across by about one and one-quarter inches deep; the wings are an inch across by one and one-eighth inches deep. The texture is fully as substantial as in *Burpee's White Spencer*.

The color is a *pronounced primrose* or creamy-yellow throughout both standard and wings. It is equal in depth and richness of color to *The Hon. Mrs. E. Kenyon*, which, of course, it outranks in form and size. Both standard and wings are thoroughly crinkled or "waved." **Burpee's Primrose Spencer** will hold its own with any of the so-called "Yellow" Sweet Peas in color, while it *surpasses all others of this color* in size of flower, length of stem and vigor of growth. A decided acquisition to the Spencer type and the first of its color to be introduced.

In sealed packets containing ten seeds each: Per pkt. 15c., 2 pkts. for 25c., \$1.00 per doz. pkts., \$7.00 per 100 pkts.

In sealed packets containing 25 seeds each: Per pkt. 25c., 5 pkts. for \$1.00, \$2.00 per doz. pkts., \$13.75 per 100 pkts.

A handsome Illustrated Circular will be mailed upon application



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BURPEE'S NEW PRIMROSE SPENCER

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Lily of the Valley finest forcing brand, \$12.00 per 1000 **Kentias, Forsteriana and Belmoreana**, fine plants, \$6.00 to \$25.00 per 100

DRACAENA INDIVISA, strong, well-grown plants, 3-in. \$4.00 per 100; 4 in. \$10.00 per 100; 5 in. \$15.00 per 100.

Rubbers (Ficus elastica) strong plants' \$20.00 per 100 **Aspidistras**, pot-grown, 10 leaves in pot, green, \$6.00 per doz.; variegated, \$8.00 per doz.

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Aristocrat, bright cerise.....	\$12.00	\$100.00	Mrs. Nelson.....	\$5.00	\$45.00
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Fair Maid and Lawson, \$5.00 per 100.

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Field grown, A1 Plants of Victory, \$8.00 per 100, \$75.00 per 1000. Queen, Fair Maid, Harry Fenn, \$6.00 per 100, \$50.00 per 1000. All first-sized plants.

Large clumps of Princess of Wales Violet \$6.00 per 100, \$50.00 per 1000. Campbell \$5.00 per 100, \$35.00 per 1000. Cash with order, please.

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Hydrangeas, Ferns, Ivies. Write for prices.

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Last Call. Fine, Strong, Field-Grown Plants.

Fair Maids
Queens
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A sport from the great morning glory variety **QUEEN ALEXANDRA**, that everybody grows to a good profit. You can't do better with this. The flowers are large, averaging three inches in diameter, and none of the flowers comes single at any time of the year. It blooms freely, either under glass or outdoors. Young stock, out of 2 1/2-inch pots, ready for delivery January 1, \$25.00 per 100.

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We will send one thousand, 50 each of 20 varieties Single and Double for \$18, or 500, 25 each of 20 varieties for \$9.25.

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Imperial and Pink Imperial, fine stock. \$12.00 per 100; \$100.00 per 1000.

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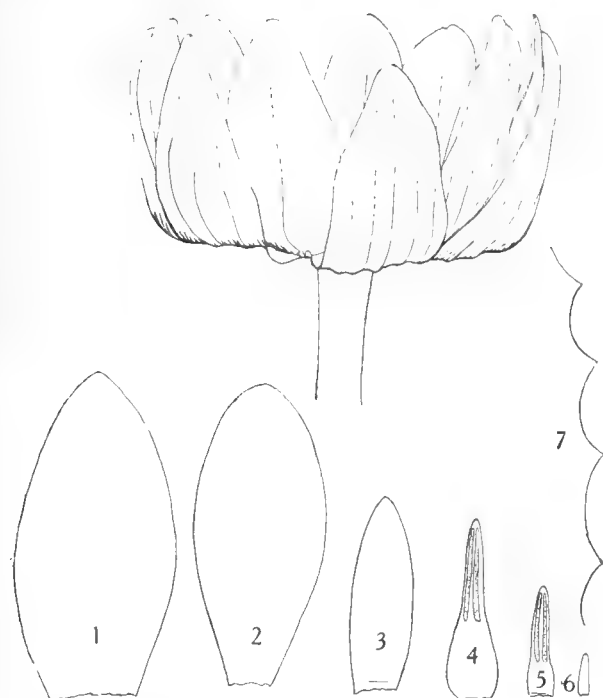
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Nymphaea x Ixion. *Blomberg, Hyb. Nov.*

* Del. R. G. Leavitt.

Explanation of the plate. 1, sepal; 2, 3, outer and inner petals; 4, 5, stamens; 6, carpel-tip; 7, margin of leaf.

This new hybrid, which has just now (Sept., 1907) flowered for the first time, has been raised from seed which matured in October, 1905, and sown soon afterwards. The seed parent was *N. x Smithiana*, and the pollen parent *N. x Niobe*. The leaves are circular, the sides of the sinus overlapping, the margin crenulate, and sharply toothed, the upper surface dark green, the lower purplish green. Leaves of the example described measured 17 1-2 inches in diameter. The flower is cup-shaped, 6 or 7 inches in diameter when spread out. The sepals and petals are more or less spreading. The sepals are narrowly ovate, usually obtuse, 5-7-ribbed, 3 1-1 inches long, up to 1 3-4 inches wide, red-green outside, white, deeply tinged with rose-madder inside. Petals in about 3 whorls, the outer obovate, nearly as long and wide as the sepals, the inner lanceolate. Stamens in 5 or 6 whorls; the outer ones pale yellow below, dull orange above, ovate below; the inner lingulate, deep orange. Carpel-tips slightly tapering, obtusish, deep orange. Carpels about 26, their upper surfaces greenish yellow.

During the summer this fine, night-blooming lily has grown vigorously in the open. When given high temperature it is sure, I am convinced, to show improvement in size and brilliance.

Carl Blomberg

British Horticulture.

THE WINTER FLOWERING CARNATION SOCIETY

The first annual report of this society affords evidence of the satisfactory progress made since its inauguration. The committee point out that as the increasing popularity of the carnation will undoubtedly add to the expenses of the society it is most desirable for the welfare both of the society and the flower itself that every individual member should do his utmost to secure adherents, and should afford all publicity to the aims and objects of the society. At present the sphere of its usefulness is narrowed by lack of funds. The society's third show will be held at the Royal Botanic Gardens, on December 11th. An attractive schedule has been arranged. Certificates of merit will be awarded to new varieties. In addition to the cut blooms no less than three plants in bloom of each variety entered is to be shown. A variety must gain at least 30 points to entitle it to a first-class certificate, and 25 points to entitle it to an award of merit. Five points will be awarded for each of the following good qualities: Color, size, fragrance, substance, calyx, general appearance, length and substance of stem, and habit of plant. The popularity of the winter-flowering carnation amongst trade growers appears to be on the increase, in the Channel Islands particularly.

AUTUMN ROSES

As a compensation for the disappointing spring and early summer we are experiencing an exceptionally fine September. A record has been made in the amount of sunshine registered. With these favorable conditions it was not surprising to find that the autumn show of the National Rose Society on Sept. 24th was an immense success—in fact it was the best exhibition of the kind yet seen in London. As was to be expected Ireland was to the fore amongst the prize winners. The gold medal for the best seedling was awarded to Messrs. A. Dickson and Co., who usually score in this section. The new rose shown was *Avoca*, a brilliant crimson. The same firm also showed *Conway Jones*, a new H. T. High honors were secured by Messrs. D. and W. Croll, who took a silver medal for *John Stuart Mill*. Another Scotch firm, Messrs. J. Cocker & Sons, secured a silver medal for the best H. T., whilst Messrs. J. Jeffries and Son had a similar award for a fine *Madame Lambard*. Messrs. Hobbies, Ltd., received a gold medal for best group of cut roses, whilst a brilliant group secured a gold medal for Messrs. Paul and Sons. There was a large attendance of visitors owing to the fine weather which prevailed. The show was kept open in the evening in order that the varieties might stand the test of artificial light. This new departure of the Society in holding an autumn show in recent years has met with a very gratifying result, and will tend to further stimulate an interest in the "Queen of Flowers." It fills the breach between the summer shows and the chrysanthemum displays. The season for the last named exhibitions opened Oct. 2nd when the National Society held their first show of the season.

W. H. Adsett.

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Plant bulbs freely

The time for bulb planting is now on and we feel justified in repeating our advice, often given before, as to the adornment of available spaces about the offices and wherever it may attract the eye of the passer, on the grounds of the retail florist or nurseryman. A few hours and a few dollars devoted now to the planting of masses of spring flowering bulbs will bring pleasing reward next spring, attracting wide-spread attention as an advertisement, uplifting the home ideals of the public and whetting their appetite for similar displays and thus bringing in many orders for next fall delivery and booming the garden sentiment at the beginning of the season, and then the sale of the flowers will go well towards paying for the entire cost. Truly an investment "all to the good." Add to it now

The S. A. F. and the canna

We are somewhat surprised at the peculiar "digression" of our esteemed Iowa friend in his paper on Cannas which appears on another page of this issue, in which he questions the claims of the S. A. F. to the support of the florists and attributes the formation of the rose, carnation and chrysanthemum societies to dissatisfaction on the part of the growers of these specialties with the treatment accorded them by the S. A. F. We think there is no foundation in fact for the latter proposition. As to the alleged neglect of the interests of the canna which Mr. Temple imputes to the S. A. F. we would ask if Mr. Temple was not chairman of the canna committee to which he refers and if, as he states, the committee was "let off with a meagre report," where should the responsibility be placed other than on the chairman of that committee?

The middleman, his joys and sorrows

The breezy paper presented by Mr. McKissick before the Philadelphia Florists' Club, which appears on another page of this issue, will interest and amuse anyone identified with the growing, selling or buying of cut flowers at wholesale. We are delighted to learn that the prospects for the middleman in Philadelphia are so roseate and extend our sincere compliments on the high plane on which the wholesale salesmen of that town now move but must confess that we are shocked to learn how different they have been in the past. Now that the cat is out of the bag, wholesale dealers in other cities can shake hands with their fellow-sufferers in Philadelphia in full sympathy for their common woes and best wishes for immunity, henceforth, from all vexations that have hitherto made the wholesalers' existence an incipient rarebit dream.

Always more than your money's worth

Commenting upon Leonard Barron's excellent address at the Congress of Horticulture upon the Horticultural Press, and referring particularly to Mr. Barron's complaint of the "quadruplication" of weekly news by four "trade" papers, our New York contemporary submits that while a quadrupling of actual news is necessarily unavoidable yet there is "a wide difference in the character and value of what may be termed the solid or permanent portion of the reading matter provided weekly by each of the four papers alluded to." We agree with our contemporary and also subscribe to the logical conclusion which our contemporary passes over, that, because of the wide difference in character of reading matter provided, the progressive craftsman will not limit his reading to one or two but will make it a weekly duty to at least glance over the pages of all four. Between these papers and between the various issues of each there is certainly a great variation as to practical value, judged, as they must be, by the respective individual needs or tastes of their readers but, take the poorest issue ever sent out by either of these journals and the man who cannot extract from its contents more than full equivalent of what it cost, must be very dull of comprehension. In fact the price asked for these papers—less than two cents per copy weekly—is absurdly disproportionate to their value and yet, undoubtedly, the publishers of every one of them are lying awake nights pondering as to how they can give even greater value for the same price. Economy is a virtue, but one's trade or professional literature may well be exempted from its application.

AFTER ADJOURNMENT.

John Everson of 28 Second place, Brooklyn, and H. Jacobson, of 616 East Seventeenth street, Manhattan, were arrested Friday afternoon on the complaint of E. H. Moore, an inspector of the Park Department, who says that the men were mutilating trees at Radde and Jane streets, where they were engaged in moving a house.—Long Island Star.

Glad to know it. "There's a good time a'coming."

A magazine called "What to Eat" regales its readers with a miraculous story told by an alleged "New York florist" of how he can in the space of an hour raise from seed lettuce fit for salad. The principal point in the recipe seems to be that the seeds are soaked over night in alcohol. Didn't "What to Eat" make a mistake and shouldn't it have said that the florist got the soaking instead of the seed? Or maybe it was the reporter for "What to Eat" who took the treatment. At any rate, if the rest of the contents of that journal are built on the same basis of reliability we should feel safe to take our cue as to "what to eat" from the barker for a "pie alley beanery."

"A Florist" is the signature attached to a protest which has appeared in an issue of the Boston American, calling attention to the control recently secured by the American Express Company over the line of the Boston & Albany R. R. between Boston and South Framingham, with the result of increased rates and much poorer service. It is unfortunate that "A Florist" is so timid that he must hide his identity. He'll never accomplish anything in the way of reform by such means. Monopolies can never be controlled or frightened by blank cartridges. "A Florist" cites the movement of which he complains as an argument against the merger of the N. Y., N. H. & H. R. R. with the Boston & Maine. This is sound reasoning. It is but one of many reasons, however, why Mellen's abominable schemes should be opposed by all New England business men.

The New York Sunday Herald has been giving its readers some thoroughly good reading matter on horticultural topics each week. On September 29 a full page was devoted to an illustrated article on violets which tells the truth about violet culture at Rhinebeck and elsewhere with a free exactness not often found in newspaper accounts of floral matters. A sharp rebuke is administered to those deluded persons, usually women, who write extravagant and misleading articles on the pleasures and profits amateurs may find in violet growing. A picture of a street fakir disposing of his wares from a tray on the curbstone is inscribed "This is how your violets will be sold if you don't succeed in growing first-class flowers." One paragraph among many well worth quoting is as follows: "In mid-September a few bunches of small short-stemmed violets creep into market. Some grower is impatient to begin the harvest. The commission man may throw them into the garbage can but he is likely to send a check. The good will of shippers is worth the price." The whole article is well worth reading, and wears no unnecessary frills.

Los Angeles florists are after the street fakirs and have made appeal to the Mayor for protection against this class, mainly Italians, who are said to buy their flowers mainly from the Japanese who raise their products on cheap-rented land, and then sell it in the vicinity of the high rental stores at prices which cut into the trade of the regular florists. A similar movement is on foot in Indianapolis. The suggestion that these vendors be restricted to a limited area, such as Central Park, and not be permitted to sell flowers in the business zone, bears the stamp of good judgment and is much more likely to find official sympathy than any demand for complete eviction, and we hope will bring just relief to the florists of these cities and at the same time work no hardship to those who are struggling to eke out an existence as peddlers. It has been found in the large centres that these street hawkers fill a place in the economy of the flower trade and that once settled into their place they could not well be spared. But the legitimate florist trade has a right to demand that they be restricted to certain localities, and possibly certain hours of the day, where they may be found by those who wouldn't buy elsewhere and the inevitable surplus of inferior material, unsaleable elsewhere, made to yield some little return for the grower.

AN OPEN AIR WEDDING.

The floral event of the Oranges occurred on October fifth in the marriage of Augusta, granddaughter of the late Orson D. Munn to Israel Tilney, upon "The Terraces," the country seat of Charles Munn of the Scientific American, in Llewellyn Park, N. J. The ceremony took place upon the lower of the seven terraces under an arch of rambler roses and oak leaves. Great as was this event to the principal actors it was greater in its way to the gardener, John Hayes, whose life-work the continuous floral bloom upon these celebrated terraces is, and that it was fully appreciated by the large gathering goes without saying. The assemblage was a brilliant one and required the entire livery equipment of the Oranges to bring the guests to the scene. The collation was served upon the terraces and upon the veranda and lawn in front of the house.

J. B. D.

THE PHILADELPHIA WAY.

While he was extolling marriage as a great institution to a party of young persons gathered in his home a few evenings ago, J. William Colflesh, a wholesale florist, who lives at Fifty-third street and Woodland avenue, was suddenly apprised by two of his sons that he was a father-in-law twice over, as they had been secretly married, their weddings not being known to each other.

These revelations only increased his good humor and strengthened his Rooseveltian convictions, for besides congratulating his two sons and saluting his two new daughters-in-law, who were in the party, he took the two bridegrooms into partnership.—Phila. North American.

PERSONAL.

Walter Morse of Morse & Beals, Lowell, Mass., was recently married to Miss Helen Barnes of the same city.

The marriage of Robert F. Tesson of St Louis, Mo., and Miss Hattie Wilkerson is announced for this month.

James D. Rough, buyer for Thos. F. Galvin's Back Bay store, Boston, and Miss Emma McDonald of East Milton, Mass., were married on October 1.

John Pitchett, formerly with W. H. Elliott, and Robert Dunn, lately with Waban Rose Conservatories, have taken positions with J. A. Budlong & Sons Co., Auburn, R. I.

Mr. John K. M. L. Farquhar delivered an interesting lecture illustrated with lantern slides, on "Gardens Ancient and Modern," before the Board of Trade, Nashua, N. H., on Thursday evening, October 10.

J. H. Small, head of the firm of J. H. Small & Sons, who has been critically ill at his residence on Brentwood Road, Washington, D. C., is, at the present writing, somewhat more comfortable. However, there is little or no hope entertained of his recovery, owing to his advanced age and to a paralytic stroke which he has had.

PHILADELPHIA PERSONAL AND BUSINESS ITEMS.

J. Otto Thilow and J. D. Eisele of Dreer's are expected home from their European trip on the 17th inst. Samuel S. Pennock and family are expected home about the 20th inst. The latest heard of Mr. Pennock's party was from the Giants Causeway in Ireland, which they thought about the greatest wonder they had seen in their long journey. Another very enjoyable feature of the trip was their visit to the Dickson Rose Nurseries at Newtonards.

Among the improvements conspicuous among the local stores are a new store front at Pennock Bros.' and fresh interior decorations; a new cash carrying system installed at the Pennock-Meehan Company's; a new store and new ice system at the Philadelphia Cut Flower Company's, and an entirely new store and location for W. H. McKissick.

The delivery problem of the wholesalers, its costs and benefits and disadvantages, so ably dilated on by Mr. McKissick at the last meeting of the Florists' Club seems to have been tackled in earnest by the Pennock-Meehan Co., who have inaugurated a discount system whereby the storeman who buys in person and takes the stock with him can save anywhere from seven to fifteen per cent. and also get the advantage of a much larger variety to choose from than by the wagon or 'phone methods.

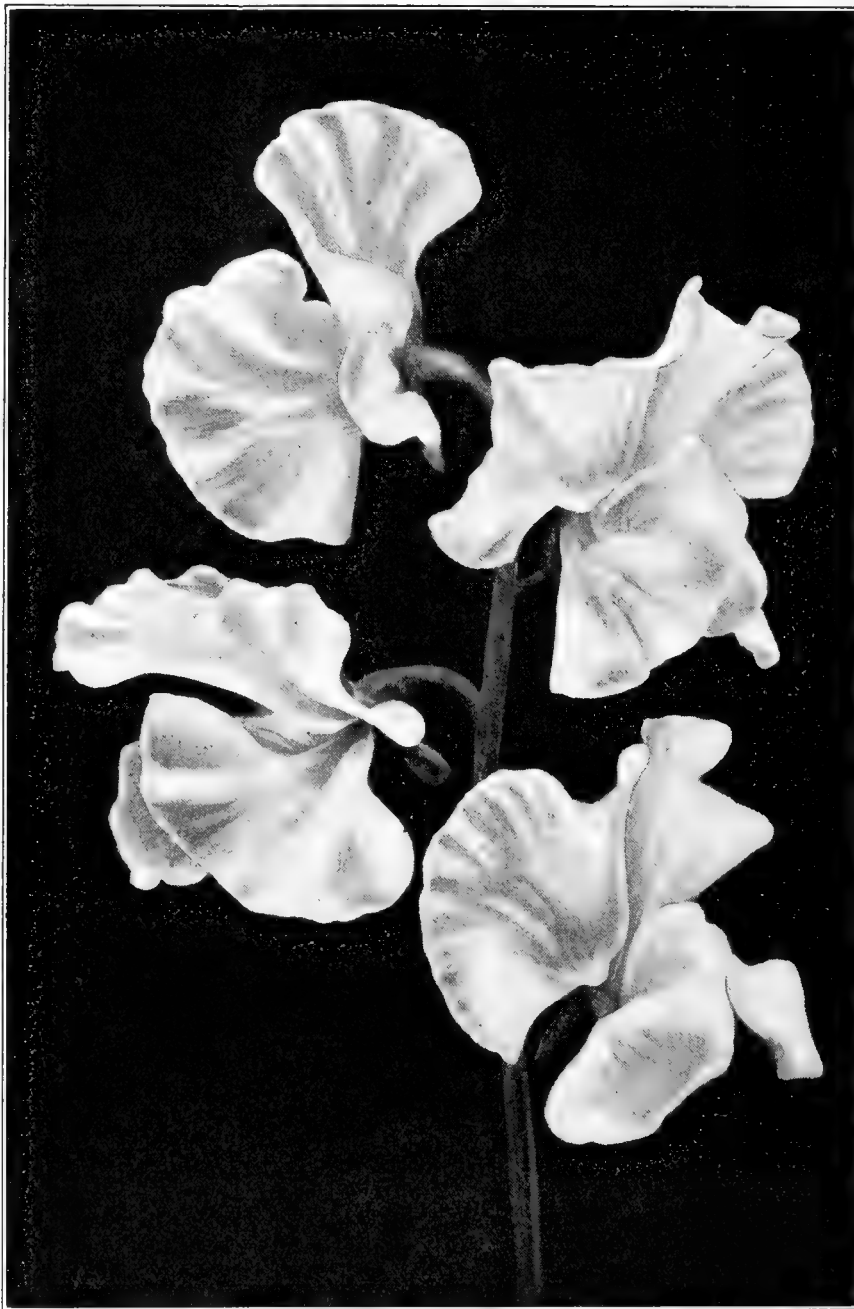
We neglected to mention that the very interesting picture of John Cook of Baltimore, with his new rose, which appeared in issue of September 28, also group of Philadelphia autoists, was from a photograph taken by Fred Lautenschlager.

SWEET PEA CAMPAIGN OF 1908.

The advent of the Spencer wavy type of flower has done much to increase the great popularity of the sweet pea and several very fine novelties in this class are already announced, chief among them being Burpee's White Spencer and Crimson Spencer. According to Lester A. Morse of California, one of the largest sweet pea growers in the world, the White Spencer especially outclasses all other whites, in size, length of stem, waviness and fragrance. Primrose Spencer is considered by the same authority to also excel all others of its color. In addition to the two sensational Burpee novelties the following foreign varieties have received awards: Elsie Herbeit (C. W. Breadmore), Evelyn Hemus (Miss Hemus), Nancy Parkin (H. A. Parkin), St. George (Hurst & Son), Silas Cole (S. Cole), Prince Olaf, The Marquis and Princess Victoria (Dobbie & Co.), Nora Unwin (Watkins & Simpson), and Lord Nelson (I. House & Son). St. George received not only an award of merit at Royal Horticultural Hall but a silver medal and a first-class certificate at the Reading trials on July 18th. All or most of these will doubtless be offered to the American trade through the regular channels in due course. Messrs. Burpee have appointed Hurst & Son, Cooper, Taber & Co., Watkins & Simpson, and Nutting & Sons as their wholesale distributing agents for the British and colonial trade. In a personal letter to the writer under date of Sept. 24th Mr. Burpee reports that "the advance orders for the new Spencers are already coming in at a remarkable rate—one retail house alone sends in today an order for eight thousand packets." The Lord Nelson of Hurst & Son proved at the Reading trial to be identical with Burpee's Brilliant Blue, but the latter variety received the "three stars" of the Royal Horticultural Society, the only other new one to capture that honor being Dobbie's Albatross.

Of all the new ones introduced last year few were more admired in England than Morse's Helen Pierce. Some of Dobbies' new ones are very fine, Menie Christie being particularly captivating. Prince Olaf resembled Sutton's Marbled Blue except for a slight difference in the striping. Robert Sydenham will send out the Evelyn Hemus. Sydenham's Millie Maslin is also a very fine one, a large rich rosy-crimson self very much darker than Prince of Wales. While Hurst & Son's Saint George did not originate from the Spencer type it has developed the wavy trait in the field the past summer. This variety is perhaps best described as a glorified Evelyn Byatt. Messrs. Sutton will send out "The Queen," a beautiful light pink of the Spencer type. Besides the two new Spencers Burpee will send out this year "Midnight," a flower so dark that Squire Aldersee, a great sweet pea specialist, who developed a single plant of the same variety had already baptized it "Jet." It is the nearest to black of any sweet pea grown. We hope to have more to say of the foregoing and other novelties as the season advances.

Among other unfortunate results of the bad weather in England the past summer is the almost complete failure



New Sweet Pea—Burpee's Primrose Spencer.

of the new sweet pea, "Evelyn Hemus," according to reports reaching this side Sept. 20th. R. Sydenham had color plated this fine variety, and others have gone to considerable preparatory expense, but it is now doubtful if it will be offered at all the coming season. Paradise, Cream Paradise and Carmine Paradise are also very short.

G. C. WATSON.

MOVEMENTS OF GARDENERS.

Henry Boet has taken the position of gardener at the Butler Hospital, Providence, R. I.

John Derwin, formerly under gardener for C. L. Bausher of Montclair, N. J., has secured the position vacated by William Bennett as gardener for A. C. Van Gausbeek of Orange.

INCORPORATED.

The North Yakima Nursery Co., located at North Yakima, Wash.; T. Kelley, president and manager.

S. J. Reuter & Son, Westerly, R. I.; president, S. J. Reuter; vice-president and manager, L. J. Reuter; secretary and treasurer, C. H. Nichols; capital stock, \$150,000.

L. L. May & Co., St. Paul, Minn.; president and treasurer, L. L. May; vice-president, F. W. May; secretary, E. W. Reid; assistant treasurer, W. H. Lovell; capital, \$200,000.

San Benito Nursery Co., San Benito, Cal.; W. H. Sturges, San Benito; H. G. Stillwell, Brownsville; F. R. Foley, San Antonio; R. L. Batts, Austin, Texas; A. Heywood, Jennings, La.; capital, \$5,000.

NEW JERSEY FLORICULTURAL SOCIETY.

The dahlia exhibition of the New Jersey Floricultural Society, held in Elks' Hall, Orange, N. J., on Friday evening, October 4th, consisted of an elaborate display of exhibition, single and cactus dahlias, miscellaneous flowers and fruits. The largest contribution, made by J. C. Williams of Montclair, comprised twelve vases of named varieties, chiefly the newer strains. Walter Gray of Maplewood had ten vases. George von Qualen arranged a vase of twenty-four varieties of dahlias. Prizes were awarded as follows:

Twelve blooms in three varieties: 1 A. B. Jenkins, gardener George von Qualen. Twenty-five blooms in variety: 1, S. & A. Colgate, gardener William Reed; 2, Walter Gray. Twenty-five blooms of Single in variety: 1, C. L. Bausher, gardener Philip Cox. Twenty-four blooms of Cactus in six varieties: 1, Walter Gray. Six blooms of white: 1 Walter Gray; 2, W. V. Gray. Six blooms of pink: 1, Walter Gray; 2, S. and A. Colgate, gardener Wm. Reid. Six blooms of yellow: 1, A. C. Van Gaasbeek, gardener John Dervin; 2, Walter Gray. Six blooms of red: 1, Walter Gray; 2, W. V. Gray.

Not for Competition—John Crosby Brown, gard. Peter Duff; vase of dahlias, first class certificate. A. B. Jenkins, gard. George von Qualen; vase of 24 varieties, highly commended. A. C. Van Gaasbeek, gard. John Dervin; vase of Lucy Faucet, certificate of merit. J. B. Dodd, 3 vases, certificate of merit. Dominick Russi, 2 vases, vote of thanks. Walter Gray, 2 vases, highly commended.

Trade Exhibit—Julius Roehrs Company, Rutherford; *Cattleya labiata* Cooksoniae var., a blush with crimson throat of rare albino strain and *Odontoglossum grande*. Lager & Hurrell, Summit; *Cypripedium Fairieanum* and *Cattleya chrysotoxa*. Joseph A. Manda, West Orange; *Laelio Cattleya* seedling. Thomas Jones, Short Hills; vase of dahlias. J. C. Williams, Montclair; 14 vases of named dahlias, and peaches and grapes.

In the monthly competition were: Charles Hathaway, gard. Max Schneyder; Stuart Hartshorne, gard. A. T. Caparn; Stewart Dickson, gard. Albert Larson, and John Crosby Brown, gard. Peter Duff.

George von Qualen secured his first with Grand Duke Alexis, Mrs. Roosevelt, Cuban Giant, and Kaiser William, all exhibition varieties. J. C. Williams received a first class certificate for Cuban Giant, Mme. Van der Halle, Mrs. Agnew, Danish Croso, show varieties, Mrs. H. J. Jones, Countess Lonsdale, cactus dahlias and Pink Century and Gorgeous, single varieties. J. B. D.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular monthly meeting of the club will be held at Horticultural Hall on October 15 at eight o'clock. The lecturer of the evening will be Wilfrid Wheeler, subject, "Fruit Growing." Mr. Wheeler is an able speaker and being an excellent grower will be able to give some useful practical hints to all who attend. Announcements in regard to the coming landscape classes will be made;

they will be started at a very early date. There will be interesting exhibits and other attractions and no one can well afford to miss this meeting.

W. N. CRAIG, Secretary.

AMERICAN CARNATION SOCIETY.

The annual premium list of this society will soon be issued and any one having special premiums to offer is requested to send full particulars of the same to the secretary.

Carnations Registered.

By H. A. Jahn, New Bedford, Mass., Lloyd.—White carnation; flowers three and one-half to four inches; free and continuous bloomer; habit is the very best. Seedling of 1902; parents two pedigree seedlings dating back to Scott and Hinze's white.

ALBERT M. HERR, Secretary.
Lancaster, Pa.

MONTREAL FLORISTS' CLUB.

This club held a very interesting meeting last Monday. It was definitely decided that the chrysanthemum show will take place in the Victoria Rifles' Armory Hall on November 13th and 14th. The V. R. Band will render a selection of classical music from 9 to 10 o'clock each evening. Another very important question brought before the meeting was in regard to the wages. The cost of living, the rent, taxes, etc., are becoming prohibitive to the wage-earners of the trade in this city, and when this question was brought before the club, the remarks which I heard among the members proved without the slightest doubt that the agitation is a very popular one, but one member making objection threw cold water on the matter, and the subject was temporarily postponed.



New Sweet Pea—Burpee's White Spencer

"THE ADVANCEMENT OF THE MIDDLEMAN AND HIS ASSOCIATE, THE SALESMAN."

W. E. McKissick before the Florists' Club of Philadelphia, Oct. 1, 1907

This paper, gentlemen, is not written with an antagonistic spirit; for we wholesalers are far from hunting trouble. A full share is already portioned out for us, and we are pretty sure to get it, without looking for it; but it is written with a hope that it may in a measure bring the middleman and the storekeeper (or the buyer) into closer touch with each other, and with the idea that it will help each to more fully realize and appreciate what one is doing for the other.

The Old Way.

Twelve or fifteen years ago some of you will probably remember how the few wholesale flower houses which were in existence at that time, employed men and boys at from eight to twelve dollars per week and called them salesmen. Their business was to sign for express packages, check up the contents, wait on a customer, or answer the telephone. As a rule their employer was a frank, open-hearted, honest sort of a man himself, and one who felt that his employes were equally so, whether he was on deck or not, and he never thought it necessary to see whether these so-called salesmen were handing out a dollar's worth for a dollar or ten dollars worth. He simply took their word for it, and when the end of the week came, he possibly sat down and figured for hours and hours in his efforts to locate the sale of certain material, which he was positive he had received from his growers, and for which he found no bill of sale. Finally, after all his efforts had been exhausted, he would go down in his pocket, pay for the goods, and take chances of finding the leak later. Another week would go around with possibly the same experience and the leak still unbound.

Bribe or Get "Burned."

Now, in other markets, I am told, it is customary for the buyer (in order to secure a bargain) to pass (on the quiet) to the so-called salesman, a piece of money, and if he did not resort to this method he would probably have to pay an exorbitant price, or to use a common phrase, be burned. The word "burned" needs no explanation; we all know too well the meaning of it. Now, while conditions were in days past nearly as bad on this market, it never came down (to my knowledge) to the deliberate handing out of "cold money." To be sure there were times when material disappeared mysteriously from the wholesale houses, but a cigar, a dinner or something of that sort by some of the buyers and the so-called salesman did the work, and should these buyers have suddenly gotten religion and on the impulse of the moment revealed what they knew to the proprietor, he would probably have had a solution to the leak in his sales.

Other Antiquated Methods.

Another bad feature of the business at that time was the over-generous spirit of the wholesaler, in allowing his employes and others, what was known as a donation. When Saturday

night came it was not considered out of place by the employer to allow an employe a portion of the flowers left over as a donation. But this privilege became sadly abused, so much so, that flowers at times took wings and the privilege had to be stopped.

Another ancient idea was the sale of flowers from the wholesale houses by wagon; this custom you are all familiar with, and while at one time a success, of late years since we have had the telephone and understand more thoroughly what could be accomplished by it, the wagon has almost entirely been abandoned. If it were not for the fact that one of our wholesalers, whom I have the honor to regard as a good neighbor and a close friend, still persists in using his wagon, I would say about him as our friend Mr. Meehan said about the grower who still carries his own stock, "That he was ten years behind times."

The New Type of Salesman.

But, today, gentlemen, things are different. The wholesaler profiting by his past experience, and those of others, and awakening to the call which competition has made, is running his business direct from the shoulder, and on the most up-to-date principles and methods. The day of the donation is past; he has discovered that the flowers in his possession are not his own, but the property of some grower; if his employes want them they are welcome to them at the lowest market price; but they must be paid for. The day of the would-be salesman is done, and in his place we have those who have stood the test and have proven themselves to be capable salesmen without a question of doubt. The wholesalers of today employ the best experienced men he can get, systematizes his business, puts them in their respective places, according to their knowledge and ability, as salesmen, packers, traders and delivery clerks; pays them their price and demands results. He has an eagle eye on the goods coming in: who they come from, how they are handled and graded; how sold and at what price, and how packed and delivered; thus keeping in touch with the stock he is handling from the time it reaches his place of business until it is handed over to the storekeeper and the bill O. K'ed, or delivered to the express company for shipment.

The salesmen in our wholesale houses today are a class of experienced and energetic young men, of whom our storekeepers should well feel proud. As compared with salesmen of fifteen years ago, these are real salesmen and real men, who are fully capable of selling material at its market value, and who do not have to stoop to the low standard of giving the buyer more than a dollar's worth for a dollar, with the idea of securing his business and making a large book, or appealing to be more than he is to his employer as a salesman.

The Secret of Success.

Philadelphia middlemen, I am glad to say, are all progressive, and have made wonderful strides along the line of advancement; credit for which has been handed out to them in various forms. One will say, "He's a wise, shrewd, business fellow"; another will say, "Mr. Blank (his former employe;)

taught him all he ever knew," and still another will say, "His financial backing is his whole success, and without which he would be lost." But, gentlemen, let me put you right, all of these things are in a measure responsible. A man must have a good, level head to manage his business successfully, but a great percentage of his success is due to the ability and untiring efforts the man who plugs away from morning till night to sell the stock, and who after hours will give him valuable suggestions to aid him in the daily routine of business; this man is the salesman. Now where do we get these good salesmen of whom we are boasting? Were they born salesmen or made salesmen? Allow me to answer this by saying that in my judgment it is a question of ability and experience on their part, combined with keeping in close touch with their employer, which has made many of these men what they are; but I hope they will not take my remarks as flattery; they are simply intended to give them the encouragement which they deserve, and which has long been coming to them.

We have few "college-bred" men in our profession, but we have men of character and ability who are slowly but surely pushing to the front. Why not a course in scientific salesmanship for some of these young men, that it may develop and fit them for the positions which will surely be to offer if the wholesale florist business continues to advance with the same speed it has done.

How the Telephone Helps.

Possibly two-thirds of our local business is at the present time done over the telephone. Each wholesaler has his trade divided, and a careful man appointed to look after the requirements of every customer. The stores are only beginning to appreciate what these men do for them in the way of keeping them in touch with the market conditions and especially in the way of process and new material, which some of the out-of-the-way stores would not know about for possibly a week if it were not for the 'phone. As it is they can now find the exact conditions in a few minutes. But does our friend the store-keeper realize the great expense item that the telephone is to us? The total cost to the Philadelphia wholesalers combined for telephone service is probably from five thousand to eight thousand dollars annually, and while we cannot do without them, I assure you the cost is a problem which gives the middleman some occasion at times to put on his thinking cap. With the amount of money expended we expect results, and in most instances we get them, as I am glad to say that the majority of our stores appreciate the telephone service, and the information which it brings; but there are still a few stores where the management is so poor that they allow their employes to treat a call from a wholesale house as a joke, and believe the salesmen have nothing else to do but to make 'phone calls to pass away the time. Again they in reply to a 'phone call will not extend him the courtesy to inquire his business; but as soon as they learn that a call is from a wholesale house,

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simply say, "Nothing doing" and hang up the receiver. We can make allowance in some instances, where the store-keeper may be busy with a customer, or again, where he may have a good supply of stock on hand and no prospects of business, but salesmen are human beings, and a little courtesy extended to them (which costs nothing), would work wonders for the store-keepers at some future time, when certain material may be scarce, and the proprietor badly in need of it. Mr. Store-keeper, try my prescription, and instruct your employes accordingly, and if it fails to cure, we will refund you money with pleasure.

Cost of Delivery Service.

Just a word now in regard to delivery service. Our city today is doing for the retail trade what no other city does (as far as I know), giving them prompt delivery service at any hour of the day from 7 A. M. to 8 P. M., and during the holiday season (I may add) any time during the day or night. This is all free to the store-keeper, but not to the wholesaler. To give the proper service, the larger houses are compelled to employ for their delivery at least from five to ten boys at a cost of anywhere from four to five dollars per week. Total this up, add the amount it costs weekly for car tickets, etc., and you will find it runs into money. The prompt delivery service which we are giving today has been brought about by competition. Oftentimes our larger stores will divide a very large order between two or more wholesale houses, ask for immediate delivery, and then watch

carefully to see which house has their order delivered first. This is an important item to the buyer, who makes a note of the best service given him, and in return places the next important order which he may happen to have with the man who gives him the attention, and on whom he can depend. I have endeavored to show you what this service means to our most up-to-date store-keepers, and to make it plain to you that they fully appreciate our efforts, but in some ways the competition has been overdone (in the way of delivery). We have been so ambitious to please the trade that at times we have delivered very small bills of goods, possibly a dollar's worth or less, the commission on which will amount to a paltry fifteen cents. The goods are placed in a box probably worth five cents, and the carefare to the customer may run anywhere from eight to fifteen cents; figure this up yourselves, gentlemen. This is what some of our less thoughtful store-keepers expect and insist on our doing, but I tell you that the wholesaler is beginning to realize that this is making money backwards, and one of our houses has boldly come out recently and told customers in a polite way that while they want their business, they cannot afford and will not deliver a bill of goods under \$2.00 to any point where it is necessary to pay carefare, unless they charge the same in with the bill of goods. This, in my judgment, is a step in the right direction. Every sound-minded store keeper is well aware that the existing competition in our business is bringing not only this service but dollars and

cents to his door every day, and it would be suicide for him to discourage us in our efforts.

The Wholesalers' Sun Is Rising.

To make a long story short, allow me to say that the wholesalers have to be and are a hustling class of men, who are willing to work night and day for results, and who have been doing it for a number of years. Today they are commencing to see light ahead, the grower and store-keeper alike are slowly grasping the fact that he is a better man than they had given him credit for. They have had a look at his brighter and better side, and are profiting in more ways than one by his efforts. The sun is rising for him; I will not say in the east, but just so sure as the sun must rise "somewhere" so sure will the middleman continue to advance.

Our business is in its infancy, and while it is so why not bring it up in the way it should go? We can never form a Philadelphia Florist Protective Association after our experience of one year ago, but we can show our fellow business men, both wholesale and retail, that we are ready and willing to meet them half way on any proposition that will be for the mutual good and advancement of our profession, or that will in any way make this rough road the florist must travel more smooth.

The Detroit park commission has received a large collection of cat-tleyas, oncidiums, dendrobiums, cypripediums, latanias, chamaerops, and other large plants from the estate of the late Daniel Scotten.

HORTICULTURAL SCHOOLS AND EXPERIMENT STATIONS.

Read by Dr. A. C. True, United States Office of Experiment Stations, at the Horticulture Congress, Norfolk, Va.

In the United States education and research in horticulture are mainly carried on in connection with the State agricultural colleges and experiment stations and the United States Department of Agriculture. Some horticultural work is done by all of the sixty experiment stations in the continental United States and in Alaska, Hawaii and Porto Rico, except in the State of Wyoming whose station is located more than 7,000 feet above sea level and has thus far undertaken work in only a few restricted lines of plant production. As reported to the Office of Experiment Stations for 1906 the stations employed 101 horticulturists. The station work in horticulture covers a very wide range. It includes all branches of horticulture and a great variety of horticultural plants, both in the greenhouse and in the field. It ranges from an attempt to select and develop plants suited to arctic conditions, as in part of Alaska, to experiment with mangoes, and numerous other tropical plants, as in Hawaii and Porto Rico. Practically all kinds of horticultural plants suited to temperate and semi-tropical conditions are receiving some attention. As regards its character, the work varies from scientific research of a high order on fundamental problems for the determination of general principles or underlying causes, to the simplest practical tests of varieties and cultural methods. In addition, our stations are doing considerable work in chemistry, botany, vegetable pathology and entomology directly relating to horticulture.

All but seven of the stations are organized as departments of the agricultural colleges and are thus brought into close relations with, and in fact are usually in organic union with, the horticultural departments of instruction in these colleges. The methods and results of station horticultural work are therefore easily and naturally brought to the attention of horticulture in these institutions, and many of these students have some participation in the station work. The progress of agricultural research in horticulture in foreign countries, as well as in the United States, is systematically reported every month to our horticultural investigators, teachers and students through the Experiment Station Record so that on its information side at least there is little excuse if instruction in horticulture in this country does not keep pace with the progress of horticultural research throughout the world.

Practically all the agricultural colleges give some instruction in horticulture. The extent and scope of this instruction varies greatly in different institutions. We have yet at least one living example of such a monstrosity as a professor of agriculture, horticulture and botany, and in a number of colleges, even in a University, one man has plenty of room to recline at full length on the settee of two such vast subjects as horticulture and forestry. But we are doing better than we used to in this respect, and in recent years the general movement for

the differentiation and specialization of agricultural subjects and instructors has affected and greatly benefitted horticultural courses in our colleges.

Fourteen colleges announce four-year horticultural courses in connection with which an effort has been made to systematize instruction in horticulture and co-ordinate the work in this subject with that in other subjects in the curriculum so as to make a more or less satisfactory technical course. In addition, several State universities have broad elective courses and offer a sufficient number of courses in various branches of horticulture to enable the students to arrange quite thorough technical courses and even to specialize to a considerable extent in some horticultural line to which he proposes to devote himself as a profession. In some of the colleges the course which horticulture students must pursue in seeking a bachelor's degree is prescribed during two or three years and electives are offered in the third and fourth years in such a way as to enable the student to specialize in horticulture at least to a certain extent. Short courses in horticulture are offered by 19 colleges. These courses vary in duration from two years to two weeks.

At the University of Illinois, where the elective system prevails, 29 courses are offered under the head of horticulture, besides a somewhat elaborate professional course in landscape gardening. Five of these courses are of a general and somewhat elementary character, 19 are for advanced undergraduates and graduates, and 5 are exclusively for graduates. Among the special courses in this list are those in spraying, viticulture, nut culture, evolution of horticultural plants, experimental horticulture, amateur floriculture and landscape design. Two courses in forestry are also included under horticulture. The horticultural faculty proper includes one professor, three assistant professors and one instructor. There is no professor of horticulture, but a professor and assistant professor of pomology, assistant professor of olericulture, assistant professor of landscape gardening and an instructor in floriculture. The professor of botany and two field assistants in pomology also take part in the horticultural instruction.

Cornell University offers 13 courses in horticulture and the horticultural faculty consists of one professor, one assistant professor and two instructors. The University of Missouri offers 9 courses, given by one professor, one assistant professor and two instructors. Michigan Agricultural College offers 17 courses (two of which are especially for women), given by one professor and four instructors. Massachusetts Agricultural College offers 3 courses, given by one professor and three instructors, and is making special effort to develop work in landscape gardening. The University of California, with a horticultural faculty of two professors, two assistant professors and one instructor, offers 8 courses, two of which are for graduate students. The University of Ohio and the Texas Agricultural College, with one professor and one assistant professor, offer 13 courses in horticulture.

While there are certain advantages, as regards the higher line of work, in the organization of horticultural

courses in connection with colleges and universities, the instruction in such institutions will inevitably be largely of a theoretical and severely technical character. It should, therefore, be supplemented by the establishment of special horticultural schools in which young men and women may be trained for the practical business of horticulture. Some attempts have been made to do this in this country, but we have not as yet any horticultural schools of this character which will compare with those at Ghent and Vilvorde in Belgium, or the National School of Horticulture at Versailles, France.

The station horticulturists are doing a large amount of useful work and they enjoy in large measure the confidence and esteem of practical horticulturists. With the increase of the resources of the stations they are getting better facilities for work, and are enabled to specialize more and to undertake more substantial enterprises. They are now giving more attention to problems connected with a broader organization of their work and with the conduct of more fundamental investigations. On the one hand they desire to cover more completely the field of horticulture and on the other to establish the practice of horticulture more securely on a rational and scientific basis. To accomplish the first of these objects the necessity for more workers and increased specialization is apparent. To attain the second there will be required the multiplication of more thorough investigations and the acquirement more largely of the scientific spirit and attitude.

Besides the special studies made by individual workers, there should be a broad inquiry, preferably by some organization of horticulturists, with a view to determining in a general way the scope and limitations of scientific horticultural work. In other words, there should be an organized effort to define and establish a science of horticulture, differentiated from but indissolubly linked with the practice of horticulture. This is all the more important because the great body of practical horticulturists embraces more intelligent and progressive men than any other great group of workers in the general field of agriculture. I have lately heard one of our leading scientific horticulturists expressing his difficulty in keeping pace with the professional advancement of practical horticulturists and doubting whether there were any subjects to be discussed among scientific horticulturists which might not be just as well discussed in assemblies of practical horticulturists. I do not believe that he expected to be taken too literally but there is food for thought in this remark.

To achieve and maintain leadership the experiment station horticulturists must be able to do certain things better than the practical men, and as I believe must chiefly depend on their ability to establish principles, to work out methods and to discover causes or the rationale of practice. When they leave this field and put themselves in competition with commercial horticulturists they run great risks of failure. It is only in rare cases that experiment station horticulturists are likely to have the means to make tests and selections and to do other things done in commercial practice on as broad

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a scale as the commercial growers do them. How often have experiments in horticulture, as well as other lines of agriculture, fallen into contempt because they were undertaken on too small a scale. The besetting sin of the station horticulturist has been the yielding to the temptation to undertake too many things at one time, to try this and that and the other thing in a picayunish way. His more or less valid excuse too often has been that many of these things were forced upon him by the imperative demands of his horticultural constituency.

Both parties must learn more thoroughly the proper functions and limitations of experiment station work in horticulture. The station man must come to see more clearly that his proper work is to attack the problems which are beyond the practical man, and the latter must recognize that it is folly to impose additional burdens on workers in horticulture at the stations. As an aid to the discussion of the problems connected with the establishment of the science of agriculture room was made for a course in horticulture at the National Graduate School of Agriculture held at the University of Illinois in 1906, and provision for a similar course is being made for Cornell University and the Geneva Experiment Station in 1908.

With the enlargement of the scientific basis of horticulture, mainly through the broadening work of the experiment stations, it should be possible to organize instruction in horticulture in a sounder pedagogical manner and to extend this instruction both inside and outside the colleges so as to reach many more students and benefit horticultural practice much more widely. The formulation and discussion of horticultural courses for different grades of schools should be encouraged.

Especially, efforts should be made to secure the more thorough organization and equipment of horticulture departments in some of the Agricultural Colleges, located in States where horticulture is a great agricultural industry. We need more of such specialization of development by agreement among our agricultural colleges. While all of them would do well to maintain respectable departments of agronomy, horticulture and animal husbandry, one or the other of these lines might properly be emphasized in individual institutions in accordance with its relative local importance. This in New

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H. Bayersdorfer & Co., Philadelphia, Pa.—Wholesale price list of Florists' Supplies. This is a superb production, the handsomest publication in its line that has ever come to our notice, and apart from its value in ordering business requisites should prove of interest as an album to any one engaged in the florist business. The size is 11x14 inches, and there are 76 pages lavishly illustrated with half-tones of beautiful wares.

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Unsurpassed for size of flowers.

Giant Crimson Giant Pink
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Cauliflower's CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

PUBLICATIONS RECEIVED.

Rawson's Bulb Guide. A brief treatise on the culture of bulbs for fall planting. Published as free literature by W. W. Rawson & Co., Boston.

Proceedings of the annual meeting of the American Association of Park Superintendents, Toronto, Ontario, August 15, 16 and 17, 1907. It appears from this report that the Association is in a flourishing condition and doing good work.

First Annual Report of The Horticultural Societies of Ontario, for the year 1906. Published by the Ontario Department of Agriculture. Contains an account of the papers and discussions at the annual meeting of the Ontario Horticultural Association at Toronto, November 9, 1906.

Thirty-eighth annual report of the West Chicago Park Commissioners for the year ending December 31, 1906. This interesting report is replete with full-page engravings, maps, and diagrams illustrating the multitudinous details of the management of the public pleasure grounds and play areas of a great city.

Report of the Park Commissioner of the City of St. Louis for 1905-1906. A publication handsomely bound and of the highest typographical excellence. The half-tone views are particularly good. It appears from this report that the parks of St. Louis cover 2,184.57 acres, and their total cost to date is \$4,483,709.08.

Bulletin of the Georgia Department of Agriculture, season 1906-1907, contains nearly 200 pages of information concerning commercial fertilizers and chemicals, inspected, analyzed and admitted for sale in the State of Georgia, pure foods, food regulations, etc., prepared under the supervision of Hon. T. G. Hudson, Commissioner of Agriculture, and John M. McCandless, State Chemist.

The Use of the National Forests, Issued by the U. S. Department of Agriculture, Forest Service, Gifford Pinchot, forester, is the author of this instructive little book of 48 pages. The lover of the woods will delight to read the story; it tells of the splendid work which the government has undertaken in the interests of the people in preserving and improving the vast tracts of forest land so wisely secured against wasteful abuse. Everyone should read this book. It will open their eyes to facts they should know.

Field Notes on Sweet Peas, by Lester L. Morse. As the leading grower of sweet peas in the United States (if not in the world), Mr. Morse is without question a trustworthy guide in matters relating to them. Several editions of his Field Notes have previously appeared, the present one bringing the information up to and including his trials of new sorts of 1907. Mr. Morse states that his book is designed purely as a help to the seed seller. As such it has certainly fulfilled its mission. Comparatively few seedsmen have opportunity to make field trials of the seeds they sell and fewer still to make such comprehensive trial of a single subject as this work covers. Over 250 varieties

are included in the classified list, and of these Mr. Morse indicates about one hundred which he designates as his choice. Of these, he gives preference to the grandiflora type, the flowers of which are twice as large as the older forms, like Crown Princess of Prussia, Scarlet Invincible, Queen of England and Butterfly. The notes, as stated, have been made from trials made in California, and allowance must be made in a few exceptional instances for climatic variation, as for example, in the case of Coccinea. This, Mr. Morse places as his first choice of crimson sorts, and in England it is similarly regarded. In the Eastern States it has been badly scorched, and is not considered as reliable as King Edward VII., which, however, is of less vivid color. Such exceptions, however, are rare, and the book cannot fail to be of great service, not only to the seed trade but to all lovers of sweet peas.

PLANT IMPORTS.

There were entered at the port of New York during the two weeks, September 25 to October 8, inclusive, the following plants:

Via Rotterdam: C. C. Abel, 56 cs. bulbs; H. F. Darrow, 18 cs. plants, 5 cs. bulbs; L. D. Crossmond Co., 2 cs. plants; A. W. Fenton, Jr., 36 cs. bulbs; Wm. Elliott & Sons, 4 cs. plants; J. W. Hampton, Jr. & Co., 71 cs. plants, 53 cs. bulbs, 3 cs. trees; Peter Henderson & Co., 100 bags garden seed, 1 cs. bulbs; Hussa & Co., 112 tubs laurel trees, 52 cs. plants; C. A. Haynes, 13 cs. plants; McHutchison & Co., 179 cs. do.; W. Kent, 2 cs. bulbs; F. R. Piereson & Co., 41 cs. plants; J. C. Roosa, 6 cs. bulbs; C. B. Richard & Co., 123 cs. plants, 256 tubs do., 6 cs. bulbs; August Rolker & Sons, 22 cs. plants; A. Schultheis, 2 cs. do.; Ter Kuile, 9 cs. bulbs; J. M. Thorburn & Co., 5 cs. plants, 130 bags garden seed; J. H. Troy, 2 cs. plants; O. Tegelaar, 58 cs. bulbs; Vaughan's Seed Store, 34 cs. plants, 7 cs. trees, 3 cs. bulbs; R. M. Ward & Co., 69 cs. plants; Wakem & McLaughlin, 28 cs. plants; To order, 58 cs. bulbs; Sundry Forwarders, 564 cs. plants, 67 cs. trees and plants, 11 cs. trees, 2 tubs laurel trees, 301 cs. bulbs, 353 bags garden seed.

Via Antwerp: John Dunn, Jr., 4 cs. plants; John Scheepers, 22 cs. do.; Sundry Forwarders, 151 cs. plants.

From Germany: Wm. Hagemann & Co., 1 cs. bulbs; J. M. Thorburn & Co., 8 bags garden seed; Sundry Forwarders, 11 cs. plants, 1 cs. bulbs.

Via Liverpool: Poat Bros., 11 cs. narcissus bulbs; J. Roehrs Co., 15 cs. plants; Maltus & Ware, 7 cs. bulbs.

Via Southampton: Hussa & Co., 22 cs. plants; McHutchison & Co., 1 cs. plants; Sundry Forwarders, 61 cs. plants.

Via Hull: Forwarder, 9 cs. plants.

From Bermuda: Forwarder, 1 cs. plants.

From Glasgow: J. Roehrs, 1 cs. plants.

From London: Vaughan's Seed Store, 1 cs. bulbs.

Owing to the Antwerp strike a great proportion of the exported Belgian grown stock was shipped to this country via Rotterdam that would under ordinary conditions in the shipping trade have been forwarded via Antwerp.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The fruit and vegetable show which opened at Horticultural Hall, Boston, at noon, October 10, is the best show of its kind seen here in many years and in some respects has never been equalled. A strong feature is the displays of vegetables arranged for effect. These are contributed by E. L. Lewis, New Hampshire Agricultural College, W. J. Clemson, Ed. Parker and others, and are almost as brilliant in color as a floral display, the beautiful green and white mats of endive and lettuce, the plummy parsley, the scarlet of peppers and tomatoes, the purple of egg plant, and the yellow of squash, carrot and pumpkin showing up gorgeously. The celery, cauliflowers, apples and grapes are particularly fine, the latter especially excelling the average of New England grown fruit. All three halls are filled comfortably with exhibits. Dahlias suffered from the freeze of Tuesday night, and the only large display of these flowers is by W. W. Rawson & Co., who show about 200 varieties. R. & J. Farquhar & Co. are represented by a fine table of Lillium speciosum rubrum and some superb groups of decorative foliage plants. A fuller account of the show and the prize awards will be given in next week's issue.

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Write for particulars and catalogue.

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Rutherford, New Jersey.

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CARRILLO & RALDWIN SECAUCUS, N.J.

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C. Trianae, *C. Percelliana*, *C. Speciosissima*, *C. Gaskelliana*, *Oncidium Kramerianum*.

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<i>Ochroleuca.</i> (Gigantea.) Grows 4 to 5 feet high, with white flowers similar to <i>I. Hispanica</i>	2.00	15.00
<i>Ochroleuca</i> (Gigantea) <i>Sul hurea</i> A pale sulphur-colored form of the above.....	2.00	15.00
<i>Pumila Hybrida Cyanea</i>	1.50	10.00
<i>Pumila Hybrida Eburnea</i>	1.50	10.00
<i>Sibirica.</i> Strong divisions	1.00	7.00
<i>Sibirica Alba.</i> Strong divisions	1.00	7.00
<i>Sibirica Orientalis.</i> Strong divisions	1.00	7.00
<i>Sibirica Orientalis.</i> Snow Queen. Strong.....	1.50	10.00

Iris Kaempferi (Japanese Iris).

Twelve Choice Single-flowering or 3 Petaled Varieties.

- No. 1. *Iso-no-nami.* Silvery white veined throughout with violet—the earliest in flower.
11. *Hano-no-nishiki.* Violet purple veined with white.
12. *Shippo.* Light lilac veined with purple.
14. *Shishi-ikari.* White ground densely veined and suffused with dark purple.
15. *Gekka-no-nami* A very early pure white.
16. *Kumoma-no-sora* Silvery white suffused throughout with soft light blue; appearing transparent.

43. *Shi-un-ryo.* White, veined with violet blue.
55. *Shuchiukwa.* Crimson purple with white veins and large white halo.
62. *Misutmeshito.* White, marbled with violet purple.
75. *O.ome.* A rich shade of violet purple, sometimes marked with white.
76. *Mine-no-yuki.* White, veined and dotted bright purple.
96. *T.botan.* Violet blue with prominent white veins.

Ten Superb Double-flowering or 6 Petaled Varieties.

4. *Yomo-no-umi.* The finest double white variety.
5. *K ki-no-iro.* Light violet with white veins.
20. *Ku na-funjin.* White ground with a broad border of bright rosy lilac veined with white.
26. *Uchiu.* Bright crimson purple with few white veins.
54. *H-i-e-jo* Rich velvety purple with crimson shadings.
68. *Waku-hotai.* White, veined throughout with violet blue.
72. *Uji-n-hotaru.* Bright violet purple shaded with blue.
91. *Kan-ran.* White, densely veined in centre of petals with rich violet purple.
95. *Raiden.* White ground, densely dotted and blotched with violet.
69. *Fuji-miac.* White, veined and traced with aniline blue.

Price of Strong Roots of Japanese Iris.

Named Sorts (order by name or number. 15 cts. each; \$1.50 per doz.; \$10.00 per 100) Set of 22 Varieties for \$2.25.

Choice Mixed Varieties. \$1.25 per doz.; \$8.00 per 100.

Iris Germanica.

Our collection of German Iris is very choice, the varieties offered being the best in their respective colors.

- Bridesmaid.* Standards pale parma violet, falls deeper, reticulated with violet purple.
- Cel-este.* Standards and falls a lavender blue shading lighter towards the centre.
- Cherion.* Standards lilac mauve, with metallic sheen, falls violet mauve shading to a bluish violet at edges.
- Edi h* Standards light plumbago blue; falls violet purple with white veins.
- Florentina Alba.* Sweet scented, early flowering white.
- Honorabillis.* Standards bright Indian yellow; falls chestnut red with yellow and white markings.
- John De Witt.* Standards bluish violet, shading lighter towards the centre, falls deep violet purple veined with white.
- L'Ayenier.* Falls and standards ageratum blue, shading lighter at base of petals with brown veins.
- Lord Salisbury.* Standards amber white; falls dark violet purple with white veins.
- Madame Chereau.* Standards and falls pure white, prettily edged with light blue.
- Ossian.* Standards straw yellow, falls bluish violet with creamy white veins.
- Plicata.* Standards bright violet purple; falls deep violet purple with lighter shadings.
- Queen of Mav.* Standards bright violet with rosy sheen, falls of lilac blue.
- Shakespeare.* Standards straw yellow veined with burnt amber falls deep carmine violet, shaded deeper and white veins.
- pestabilis.* Standards light violet purple, falls deep violet purple with dark shadings, one of the earliest to flower.
- Wa'neri.* Standards parma violet, shading lighter towards edges, falls bluish violet marked with white at base.
- Price. 10 cts. each; \$1.00 per dozen; \$8.00 per 100.
- Mixed German Iris, all colors. 60 cents per dozen; \$4 per 100.

For full and complete list of Pæonies, Phlox and other Hardy Perennial Plants, as well as all other seasonable Plants, Bulbs and Seeds, see our new Wholesale Price List.

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CANNAS.

A paper read by John T. Temple before the Society of Iowa Florists.

Within the recollection of your essayist the most popular flower for the garden was the verbenia. Dexter Snow of Chicopee, Mass., a verbenia specialist, used to send out a list of over fifty varieties which were quoted from 25 to 50 cents each. After the verbenia lost its popularity through disease and the effects of the verbenia rust, the zonale geranium, as it used to be commonly called, began to loom up as the most popular plant, especially as Lemoine, Bruant and other French florists began to send us their double and dwarf blooming varieties, and John Thorpe and others in this country raised such good sorts as S. A. Nutt, Gen. Grant, Sam Sloane and others. But of late years, either from over-propagation or some unknown cause, the geranium is not what it used to be and the varieties of the present day have not the free-blooming qualities of the early varieties. For the past three seasons the geranium beds are mostly all foliage and have few flowers compared with former seasons. The best bed seen in Des Moines at the present time is one of S. A. Nutt geranium. Most of the local florists will tell you that on account of its color and free blooming qualities they dispose of from three to six plants of S. A. Nutt to any other variety. It is a seedling raised by John Thorpe. Not believing in after-death glorification, I think that the S. A. F. would honor itself by presenting to Uncle John Thorpe a handsome testimonial for the boost he gave to the culture of the carnation, chrysanthemum and geranium by the fine varieties he raised from seed and disseminated while he was in business.

The Claims of the Canna as a Bedding Plant.

Some few years ago the canna became prominent as a bedding plant, especially since the advent of the variety Mad. Crozy. Owing to its value as a decorative plant both as regards foliage and flowers the canna is used extensively. When properly attended to it blooms from June until frost and because of its ease of culture and elegant foliage it is seen in nearly every park and garden in the United States. The question arises, what would our gardens and parks look like if we did not have the canna to embellish them with, or in other words, what would the florists do without the canna to make the effective planting of these modern times? It is everybody's flower through its ease of culture and its bright colored flower and elegant foliage, still the S. A. F. has not given it the attention that should be given to such a popular plant; just appointed a canna committee for a couple of years and let them off with a meagre report. The carnation, rose and chrysanthemum growers, not fancying that sort of treatment have each started a society of their own. The question is, is the S. A. F. worthy of our support? True, it has accomplished some good in certain lines, but not all that a national society could do. But I am digressing from the subject. If your secretary

had asked for the best 25 or even 50 varieties of cannas instead of the best six, it would have pleased me, for there are others that I like better, but they have some fault and would not do for planting by the majority of people. Among the best six that I can recommend from my own experience the first one is Express, a dwarf red sort sent out by Nathan Smith & Son. In some seasons cannas do not do as well as others, but for the last three seasons Express has not failed. Second, Florence Vaughan, the gem of the yellow Crozy type; golden yellow spotted bright crimson, and largely planted all over the country. Third, we must not omit Mr. Crozy's original introduction, Mad. Crozy, red bordered with yellow, which even today is one of the best cannas grown. Fourth, another that is very good is Chicago. The handsomest flower bed in the Iowa State Fair Grounds is one of Canna Burbank, a very effective yellow variety, introduced by Luther Burbank, the California hybridist, which an Eastern critic seeks to disparage, claiming that Burbank and Austria are identical. Sixth, the peer of the best six cannas, equally effective for its foliage as well as its very large handsome red flowers, is King Humbert, a perfect gem which as it becomes better known will be largely planted.

I have named the six, but there are others that I cannot stop without mentioning, such as Black Beauty, grown for its foliage, Kate Gray, Compté de Sachs, Tarrytown, Betsy Ross, Marlborough, Washington, Buttercup, Gloriosa, Pennsylvania, Philadelphia, Louisiana, and numerous other fine sorts raised by Antoine Wintzer.

The victories of peace are equally as grand as those of war, and as it is not feasible to patent a new plant we could or should reward the raisers of highly meritorious new varieties of plants by having something like an American Legion of Honor of various degrees that money could not buy to be conferred upon them for their services, but only after a thorough test in different locations and different soil and conditions.

DEFINITION OF AN AUCTION.

At last Tuesday's plant sale Hubby & Wife attended, accompanied by their youngest child. The boy became curious and asked his father if there was going to be a lecture. Father informed him only an auction sale; child at once wanted to know what an auction sale was, he replying, "Where they separate you from your money and then sting you." After a pause the parent arose to ask the auctioneer a question, when the child called out: "Dady, tome back; you will get stung if you don't!" (Laughter.)

FROST.

The first frost in the Boston district occurred on the night of October 8 and the morning of October 9 brought to light wrecked gardens all around. Dahlias intended for the exhibition at Horticultural on the 10th and 11th were completely ruined and the more valuable garden flowers and vegetables generally were laid low.

COMING EXHIBITIONS.

The fourth annual Ontario Horticultural Exhibition will be held at Massey Music Hall, Toronto, Ont., November 12 to 16, 1907. Copies of the schedule containing rules, entry form, price lists, etc., may be obtained from the secretary, E. F. Collins, 415 Pape avenue, Toronto.

The schedule for the twelfth annual flower show of the Morris County Gardeners' and Florists' Society to be held at Madison, N. J., on October 31 and November 1, offers \$500 in cash prizes for chrysanthemums, roses, carnations, violets, etc., including many special premiums offered by seedsmen and other commercial houses. Copies of the list may be obtained from E. Reagan, secretary, Morristown, N. J.

The following have been mentioned at length in preceding issues of HORTICULTURE:

Menlo Park Horticultural Society, Menlo Park, Cal., Oct. 18, 19. F. G. Hutchinson, secretary.

Lenox Horticultural Society, Lenox, Mass., Oct. 23, 24. G. H. Instone, secretary.

Marin County Horticultural Society, San Rafael, Cal., Oct. 26. T. P. Redmayne, secretary.

Monmouth County Horticultural Society, Red Bank, N. J., Oct. 30, 31. H. A. Kettell, secretary.

Morris County Gardeners' and Florists' Society, Morristown, N. J., Oct. 31, Nov. 1. Edw. Reagan, secretary.

New Haven County Horticultural Society, New Haven, Conn., Nov. 6-8. Walter Koella, 58 Bishop St., New Haven, secretary.

Chrysanthemum Society of America, American Institute, 19-21 West 44th St., New York City, Nov. 6-8. David Fraser, Homewood and Penn Ave., Pittsburg, Pa., secretary.

Nassau County Horticultural Society, Glen Cove, N. Y., Nov. 6-8. J. F. Johnston, secretary.

Denison Civic Improvement League, Denison, Tex., Nov. 6-8. T. W. Larkin, secretary.

Tarrytown Horticultural Society, Tarrytown, N. Y., Nov. 6-8. E. W. Neubrand, secretary.

Massachusetts Horticultural Society, Horticultural Hall, Boston, Chrysanthemum show, Nov. 8-10. W. P. Rich, secretary.

Horticultural Society of Chicago, Chicago, Nov. 6-12. E. A. Kanst, 5700 Cottage Grove Ave., Chicago, secretary.

Horticultural Society of Buffalo, Buffalo, N. Y., Nov. 11-17. J. H. Tranter, P. O. Box 994, secretary.

Florists Club of Washington (D. C.), Nov. 12-14. Chas. McCauley, 18th & Kearney Sts., Washington, D. C., secretary.

Montreal Gardeners' and Florists' Club, Chrysanthemum show, Nov. 13, 14. Victoria Rifles Hall, Montreal, Que. W. H. Horobin, 283 Marquette St., secretary.

State Floral Society of Arkansas, Little Rock, Nov. 14-16.

Rhode Island Horticultural Society, Providence, Nov. 15, 16. C. W. Smith, 27 Exchange St., secretary.

Worcester County Horticultural Society, Chrysanthemum show, Worces-

ter, Mass., Nov. 14. A. A. Hixon, secretary.

Ontario Horticultural Exhibition, Massey Music Hall, Toronto, Ont., Nov. 12-16. H. B. Cowan, Parliament Buildings, Toronto, secretary.

Maryland State Horticultural Society, Fifth Reg. Armory, Baltimore, Dec. 3, 4. T. B. Symonds, College Park, Md., secretary.

BUSINESS CHANGES.

The Alameda Floral Co. have succeeded H. Gresens at 1251 Park St., Alameda, Calif.

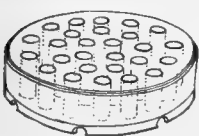
Darvell & Fickett have started in the flower business at 670 Sixth Avenue, New York City.

Hillyer & Co. have taken a five years' lease of the Welden Greenhouses, Berlin, Conn.

Gallagher's Flower Shop has succeeded to the business of the Metz Floral Co. at 5005 Page boulevard, St. Louis, Mo.

Chas. H. Fiske will take charge of the store at 548 W. Madison street, Chicago, vacated by H. F. Halle, and carry it on in connection with his present establishment on Ogden avenue. Mr. Halle finds that his new place on Sheridan road, North, requires all his attention.

The "Japana" Cut Flower Holder



A handy article for florists. Sells to the trade on sight. Made of glass in three sizes. The "Anglais" Table Decoration, something entirely new, long needed. The florist and housewife will appreciate this article, as it simplifies the art of table decorating.

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Cattleyas, Oncidiums and Chrysanthemums

Also, FIELD CROWN CARNATION PLANTS. A few good varieties still left

FIRST SIZE — good, well developed, late plants

	per 100	per 1000
Crocker	\$5.00	\$40.00
Enchantress	6.00	50.00
Fair Maid	6.00	50.00
Queen Louise	5.00	50.00
Lawson	5.00	40.00
Joost	5.00	40.00
Boston Market	5.00	45.00

SECOND SIZE — healthy and vigorous, although not extra large

	per 100	per 1000
White Perfection	\$6.00	\$50.00
Robert Craig	5.00	45.00
Haines	5.00	40.00
Cardinal	4.00	35.00
Flamingo	4.00	35.00
Enchantress	5.00	40.00

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TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	Oct. 8		August 31		Oct. 3		Oct. 10	
ROSES								
Am. Beauty, Special.....	30.00	to 35.00	20.00	to 30.00	20.00	to 25.00	15.00	to 25.00
" Fan. & Ex.....	20.00	to 25.00	12.50	to 17.00	15.00	to 18.00	6.00	to 10.00
" No. 1.....	10.00	to 15.00	10.00	to	10.00	to 12.00	4.00	to 6.00
" Lower grades.....	5.00	to 8.00	3.00	to 5.00	5.00	to 8.00	1.00	to 3.00
Bride, 'Maid, Golden Gate, F. & S.....	5.00	to 8.00	4.00	to 6.00	5.00	to 6.00	3.00	to 8.00
" " Extra.....	.....	to	2.00	to 4.00	.....	to	2.00	to 4.00
" " No. 1 & lw. gr.....	2.00	to 4.00	2.00	to 3.00	2.00	to 3.00	.50	to 1.00
Liberty, Richmond, Fan. & Sp.....	5.00	to 8.00	4.00	to 6.00	5.00	to 6.00	4.00	to 8.00
" Lower grades.....	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00	.50	to 2.00
Chatenay, Morgan, Fan. & Sp.....	.....	to	4.00	to 6.00	.....	to	2.00	to 6.00
" Lower grades.....	.....	to	3.00	to 4.00	.....	to .....	.50	to 1.00
Kaiserin, Carnot, Fan. & Sp.....	6.00	to 8.00	4.00	to 6.00	5.00	to 8.00	3.00	to 8.00
" Lower grades.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	1.00	to 2.00
Killarney, Wellesley, Fan. & Sp.....	5.00	to 8.00	4.00	to 6.00	5.00	to 6.00	4.00	to 8.00
" Lower grades.....	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00	.50	to 2.00
CARNATIONS								
Fancy and Novelties.....	2.00	to 3.00	1.50	to 2.00	2.50	to 3.00	1.50	to 2.50
Ordinary.....	1.00	to 1.50	.75	to 1.00	1.00	to 2.00	1.00	to 1.50
MISCELLANEOUS								
Violets.....	.70	to 1.00	.....	to .....	.....	to .....	.40	to .60
Cattleyas.....	50.00	to 60.00	35.00	to 60.00	50.00	to 60.00	50.00	to 75.00
Lilies.....	15.00	to 18.00	10.00	to 12.00	12.00	to 15.00	6.00	to 8.00
Lily of the Valley.....	3.00	to 5.00	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Gladioli.....	3.00	to 6.00	1.00	to 2.00	1.00	to 2.00	.50	to 1.00
Chrysanthemums.....	15.00	to 35.00	20.00	to 50.00	30.00	to 50.00	12.00	to 25.00
Asters.....	1.00	to 2.00	1.00	to 2.00	1.00	to 1.50	.50	to 2.00
Adiantum.....	1.00	to 1.50	.75	to 1.00	1.00	to 1.50	.50	to 1.50
Smilax.....	12.00	to 15.00	12.00	to 15.00	12.00	to 15.00	8.00	to 12.00
Asparagus Plumosus, strings.....	35.00	to 50.00	35.00	to 50.00	50.00	to	to 50.00
" " & Sprea. (100 bchs.).....	35.00	to 50.00	35.00	to 50.00	35.00	to 50.00	20.00	to 50.00

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FLOWER MARKET REPORTS

BOSTON

The cold wave has shortened up the supply of some outdoor material, but the market is not materially strengthened on this account, as chrysanthemums and carnations are beginning to make a strong showing and more than take the place of anything that may have been cut off. Of carnations the whites are the more salable, colors moving very slowly; quality varies. There are some excellent flowers for the season, but more of them are of inferior quality. Roses are not up to good pitch yet, and the quantity of the smaller weaker grades is beyond the market's capacity. Prices in general are at a standstill.

BUFFALO

Autumn is now in full swing and everybody is busy; social plans taking definite shape, and club and charitable work being resumed as people settle for winter. It is a little early for any extensive indoor entertainment, but informal entertainments for bride-select and similar affairs have been creating a good demand for white roses, lily of the valley, orchids in excess of former fall seasons, and there seems to be no let-up. White chrysanthemums helped out considerably, and while not large in size, have sold at good prices. Demands have been heavy on Beauties, which are of fine quality, also for Bridesmaid, Richmond and Killarney, the supply not being too abundant but good, clean sales daily. The shipping trade has helped to consume a good portion. Carnations are coming in more plentifully, but are cleaned up daily, the greater portion being short-stemmed, save Enchantress, which still leads in quality. Asters and gladioli are beginning to take a back seat, but move to the front when floral work is to be had; the light varieties find very little trouble in being disposed of. Violets show the effect of last week's Indian summer, and are a little on the shaky list, with demand light.

CINCINNATI

The chrysanthemum never received a better welcome than it has this fall. Estelle and Glory of Pacific are the advance guard. Roses, carnations and lilies are still scarce, but will not be so badly missed now. Stock has been bringing more than it was worth for some time, carnations especially. Dahlias have been a promi-

nent flower in the market this season. Some good varieties have appeared in quantity and they have sold well. Business is brisk and the prospects for a good season were never better.

INDIANAPOLIS

The cut flower business seems a little brighter this week. The weather is more favorable and a shortening up in some lines seems to have helped out considerably. The quality of greenhouse stock has steadily improved while the comparatively small supply of outdoor flowers, principally dahlias, has greatly deteriorated and they will soon be a thing of the past. Chrysanthemums are coming in generous quantity and are of remarkably quality for early October. Carnations are steadily improving as to flower and stem and some excellent blooms will be seen at an early date. American Beauty now reigns supreme and has good stems and color. Good tea roses are arriving more plentifully but are far from being equal to demand. Lily of the valley moves slowly. Violets have made a modest beginning. There has been no frost as yet, the weather continuing warm with quite a lot of rain. This has been a good growing season taking everything into account.

MONTREAL

Business in Montreal is picking up. Quite a number of weddings have helped the trade along. Outside flowers are all over, with the exception of dahlias. Roses, carnations and chrysanthemums are getting more plentiful, but the demand is still far ahead of the supply. Wholesale men as well as retailers are satisfied with the present conditions.

NEW YORK

There is a slight stiffening up on prices of flowers of the higher grades as indicated in our quotations, but this must not be construed as any general advance in market rates on an average for the lower grade flowers are just as hard to dispose of as they have been at any time this season and their value has not been at all enhanced by recent weather changes. Chrysanthemums are coming in freely, and buyers are looking for much finer material for the prices they were paying for indifferent quality two weeks ago. Violets continue in over supply and carnations are rapidly multiplying.

There are some fine autumns in the market and these are the ones that sell.

PHILADELPHIA

The commencement of the fall wedding season gave stimulus to last week's market especially in the early part. Lily of the valley, white roses, cosmos and Easter lilies went well. For parlor and church decorations the dahlia is much in favor. On the whole it has been a very good season for the dahlia men, very little good stock going to waste. Early chrysanthemums are now in. Polly Rose and Pink Pacific are most conspicuous but demand is not very active. Beauty and other roses cleaned up well until late in the week. The weakness was then particularly noticeable in the shorter grades. Carnations found excellent market for good stock but far too many short stems are arriving. Prices are a shade easier on cattleyas but these and other orchids move nicely and without waste.

WASHINGTON

Following the beautiful weather of the past two weeks, a fierce wind and rain storm visited portions of the District of Columbia on Oct. 8th. So far, no damage has been reported. Dahlias are plentiful and in their prime. The first chrysanthemums are coming in; cosmos is pretty well launched on the market and of very good quality. Some violets are being shown, though in limited quantities and short of stem.

The great scarcity of cut flowers prevailing in the Detroit market is about being broken, through the arrival of chrysanthemums, the first having reached the Michigan Cut Flower Company from Robt. Klagge, Mt. Clemens.

We have received from a foreign correspondent an interesting account of the extensive bulb growing industry being carried on by Messrs. Van Meerbeek & Co., a Holland firm of over fifty years' existence, who do quite a heavy exporting trade.

The residence of C. J. Foster, florist, of Findlay, O., was damaged by fire to the extent of \$500 on September 24, but was covered by insurance.

In ordering goods please add, "I saw it in HORTICULTURE."

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 NEW YORK
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 Madison Sq.
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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Oct. 7 1907	First Half of Week beginning Oct. 5 1907		Last Half of Week ending Oct. 7 1907	First Half of Week beginning Oct. 5 1907
Roses			Carnations, Fancy and Novelties...	3.00 to 5.00	3.00 to 5.00
Am. Beauty, fan and sp.	20.00 to 25.00	20.00 to 25.00	“ Ordinary .....	.... to 2.00	.... to 2.00
“ extra	12.00 to 15.00	12.00 to 15.00	Violets .....	.15 to .40	.15 to .40
“ No. 1.	5.00 to 10.00	5.00 to 10.00	Cattleyas	40.00 to 60.00	40.00 to 60.00
“ Lower grades	1.50 to 4.00	1.50 to 4.00	Lilies	12.00 to 20.00	12.00 to 20.00
Bride, 'Maid, Golden Gate, fan & sp	6.00 to 8.00	6.00 to 8.00	Lily of the Valley	3.00 to 4.00	3.00 to 4.00
“ “ “ lwi. grds.	1.50 to 3.00	1.50 to 3.00	Gladioli .....	.50 to 2.00	.50 to 2.00
Liberty, Richmond, fancy & special	12.00 to 15.00	12.00 to 15.00	Chrysanthemums	25.00 to 50.00	25.00 to 50.00
“ lower grades ..	1.50 to 8.00	1.50 to 8.00	Asters	1.00 to 2.00	1.00 to 2.00
Kaiserin, Carnot, fancy and spec.	8.00 to 10.00	8.00 to 10.00	Adiantum .....	.50 to .75	.50 to .75
“ lower grades ..	2.00 to 5.00	2.00 to 5.00	Smilax	8.00 to 12.00	8.00 to 12.00
Killarney, Wellesley, fan. and spec.	8.00 to 10.00	8.00 to 10.00	Asparagus plumosus, strings...	20.00 to 30.00	20.00 to 30.00
“ “ lower grades.	1.50 to 3.00	1.50 to 3.00	“ & Spreng. (too bchs.)	10.00 to 25.00	10.00 to 25.00

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Give us a trial order on ferns; we are sure we can please you. Headquarters for Florist Supplies and wire work.
Write for price list on cut flowers and supplies.
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		WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.			
		CINCINNATI Sept. 30	DETROIT Oct. 8	BUFFALO Oct. 7	PITTSBURG Oct. 7
ROSES					
Am. Beauty, Fan. and Sp.....	..... to 25.00	35.00 to 40.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
“ Extra	15.00 to 20.00	25.00 to 30.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
“ No. 1.....	10.00 to 12.50	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
“ Lower grades.....	6.00 to 8.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
“ No. 1 & lw. gr.	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Liberty, Richmond, Fan. & Sp.....	6.00 to 8.00	5.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
“ Lower grades.....	3.00 to 4.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00
Chatenay, Morgan, Fan. & Sp.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
“ Lower grades.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
Kaiserin, Carnot, Fan. & Sp.....	6.00 to 8.00	5.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
“ Lower grades.....	3.00 to 4.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00
Killamey, Wellesley, Fan. & Sp.....	6.00 to 8.00	5.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
“ Lower grades.....	3.00 to 4.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00
CARNATIONS					
Fancy and Novelties.....	..... to 2.00	1.50 to 2.50	1.50 to 3.00	2.50 to 3.00	1.50 to 3.00
Ordinary .....	..... to 1.00	1.00 to .....	.75 to 1.00	..... to 1.50	..... to 1.50
MISCELLANEOUS					
Violets .....	..... to .....	.40 to .60	.50 to .60	..... to .....	..... to
Cattleyas .....	..... to	35.00 to 50.00	50.00 to 60.00	..... to .....	..... to
Lilies	12.50 to 15.00	15.00 to	4.00 to 15.00	15.00 to 18.00	..... to 20.00
Lily of the Valley.....	4.00 to 5.00	4.50 to	3.00 to 4.00	4.00 to 2.00	..... to 4.00
Danlias .....	..... to .....	..... to	1.00 to 3.00	3.00 to .....	..... to
Asters.....	.50 to 2.00	..... to .....	.25 to 1.50	..... to 2.00	..... to
Gladioli.....	2.50 to 3.50	2.50 to 3.50	2.00 to 3.00	..... to 4.00	..... to
Chrysanthemums	12.00 to 25.00	12.00 to 25.00	12.50 to 25.00	..... to .....	..... to
Adiantum	1.00 to 2.00	1.00 to 2.00	.50 to 1.50	..... to 1.50	..... to 1.50
Smilax	15.00 to	15.00 to .....	..... to 15.00	15.00 to .....	..... to
Asparagus Plumosus, strings.....	40.00 to 40.00	40.00 to 75.00	40.00 to 50.00	50.00 to 35.00 to 50.00
“ “ & Spren. (100 bchs.) to 25.00	30.00 to 40.00	25.00 to 35.00	35.00 to 50.00 to 50.00

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Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. **Wittbold Co.**, 1857 Buckingham Pl., Chicago.

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Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. **Erle Floral Co.**, Erie, Pa., or **Wm. F. Kastling**, Co., 385 Ellicott St., Buffalo, N. Y.

Asparagus plumosus, 2 1/2 in., \$3.50 per 100; \$30 per 1,000; 3-in., 6c.; 3 1/2 in., 10c. 4-in., 12c.; 5-in., 20c.; 6-in., 30c. **Comorensis**, 2-in., 2c.; 2 1/2 in., 3c.; 3 1/2 in., 6c. **Sprenger**, 2 1/2 in., 3c.; 3 1/2 in., 8c.; 4-in., 10c. **J. W. Dunford**, Clayton, Mo.

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McRae-Jenkinson & Co., Cheswick, Pa.

BOILERS

BOILERS, "Burnham" Boilers made for greenhouse heating. **Lord & Burnham**, 1133 Broadway, N. Y.

BOXWOOD

Boxwood, all sizes. **Bobbink & Atkins**, Nurserymen & Florists, Rutherford, N. J.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. **Lord & Burnham Co.**, 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lilies. For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y. For page see List of Advertisers.

Rickards Bros., 37 East 19th St., New York. White Roman Hyacinths. For page see List of Advertisers.

H. F. Michell Co., Philadelphia. For page see List of Advertisers.

John Scheepers & Co., 4 and 6 Old Slip, New York.

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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

Lillum Harrisli and Freesia Bulbs. For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y. Fall Bulbs. For page see List of Advertisers.

D. Rusconi, 32 W. Sixth St., Cincinnati, O. Callas, Narcissi, Dutch Bulbs. For page see List of Advertisers.

The F. K. Pierson Co., Tarrytown-on-Hudson, N. Y.

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Aug. Rolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs. For page see List of Advertisers.

Write for prices on only selected bulbs, plants, etc. **F. W. O. Schmitz**, Prince Bay, N. Y.

Price list of native bulbs, tree, shrub and plant seeds now ready. **L. E. Williams**, Nottingham, N. H.

Dutch Bulbs, including Hyacinths, Crocus, Tulips, Daffodils, etc. **Bobbink & Atkins**, Nurserymen & Florists, Rutherford, N. J.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.

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Chicago Carnation Co., Joliet, Ill.

Carnation Aristocrat.

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A. B. Davis & Sons, Purcellville, Va.

Carnation Queen Louise.

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R. Engelman & Son, Pittsfield, Mass.

Field Grown Carnations and Violets.

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The H. Weber & Sons Co., Oakland, Md.

Seedling Carnation Toreador.

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Chas. H. Green, Spencer, Mass.

Field-Grown Carnations.

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H. A. Cook & Sons, Shrewsbury, Mass.

Field-Grown Carnations.

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Carnation Lady Bountiful.

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Carnation Plants.

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J. Newman & Sons Cop'n, 24 Tremont St., Boston.

Carnation Plants.

Chas. Evans, Watertown, Mass.

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McRae-Jenkinson & Co., Cheswick, Pa.

Guttman & Weber, New York.

Carnation Victory.

Wm. Nicholson, Framingham, Mass.

Field-Grown Carnations.

Chas. H. Totty, Madison, N. J.

Field Grown Carnations.

Sheppard Garden Carnation Co., 292 Fairmount St., Lowell, Mass.

Field Growing Carnations.

Carnations extra large and strong stock, field-grown, Crocker, \$5.00. **W. C. Pray**, Kinkora, N. J.

Carnations, Boston Market, \$3.25 per 100; Pink Lawson, \$3.50 per 100. Cash. **Wm. Schaffer & Son**, Dover, Del.

Carnations, 1500 Fair Maid, strong, healthy plants, no stem-rot, \$4 per 100. **Maurice J. Brinton**, Christiansiana, Pa.

Carnations, Mrs. Joost and Ethel Crocker, \$4 per 100; \$35 per 1000. Boston and Scottie Ferns, 6-in., \$4 per doz. **Mish's Lebanon Greenhouses**, Lebanon, Pa.

6,500 Enchantress, large, strong plants. 1,600 Bountiful; also Cardinal, B. Market, Queen, Joost, Goddard, \$5.00 per 100, \$45 per 1,000. **A. A. Gannett**, Geneva, N. Y.

Bargains—Strong field-grown Carnations, Louise, Harlowarden, Lord, \$3.50 per 100. Larger quantity at your own price. Try a few. **Henry Schrade**, Saratoga Springs, N. Y.

Surplus Carnation plants: Enchantress, Lawson, Queen, Fair Maid, Rose-Pink Enchantress, Victory, etc. For information write **Peirce Bros.**, Waltham, Mass.

Carnations, field-grown, large plants, 1075 Q. Louise, \$5 per 100, \$48 the lot; 300 Harlowarden, \$5 per 100, \$13 the lot; second-sized plants, 300 Harlowarden, 75 Prosperity, 75 W. Lawson, 75 Patten, \$3.50 per 100, \$15 the lot. **J. W. Dunford**, Clayton, Mo.

CHRYSANTHEMUMS

Chrysanthemums, 1200 shapely pot grown

6-in. best varieties, 25 to 35c. each. **J. W. Dunford**, Clayton, Mo.

Chrysanthemums, leading varieties in

white, pink, yellow and red. Prices of

rooted cuttings and 2 1-2 in. stock are

given on application. **Poehlmann Bros. Co.**,

Morton Grove, Ill.

CHRYSANTHEMUMS.

Stock plants of early kinds now ready:

MONROVIA, MONTMORT, ROSIERE,

TOUSET, POLLY ROSE, PACIFIC,

OPAH, BERGMANN, and all standard

earlies \$4 per 100. Later kinds, Nov.

1. Stock plants of all of Hill's and

Totty's novelties of this year, \$10 per 100.

Send for catalogue of over one hundred

kinds now ready. **HARLOWARDEN**

GREENHOUSES, GREENPORT, N. Y.

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CONIFERS
John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.
Welch Bros., 228 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.
S. S. Skidelsky, 1741 N. 8th St., Philadelphia.
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DAHLIAS
David Herbert & Son, Atco, N. J.
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Dahlia, just as dug from field; cactus, show, fancy and decorative, over 100 varieties. Write for prices. A. W. Gardiner, Lock Box 575, Springfield, Mass.

DAISIES
The Fernery, 1421 Charles St. N., Baltimore, Md.
New Double Daisy.
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DECORATIVE PLANTS
A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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Anton Schulthels, College Point, N. Y.
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DRACAENAS
Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminata, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1637 Buckingham Place, Chicago.

EVERGREENS
Bay State Nurseries, N. Abington, Mass.
Small Evergreens.
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FERNS
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W. P. Craig, 1305 Filbert St., Philadelphia.
"Amerpohlii."
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Ferns, 4-in. Whitman, 30c. Barrows, 15c. C. E. Ervin, Latonia, Ky.
Bostons, 2 1-2-in., 4c.; 3-in., 8c.; 4-in., 15c.; 5-in., 25c.; 6-in., 40c.; 7-in., 65c.; 8-in., \$1 to \$1.50; 10-in., \$1.50 to \$2. J. W. Dunford, Clayton, Mo.

FLORAL PHOTOGRAPHS
Floral Photographs. Foley's 228-228-1-2 Bowery, New York.

FLORISTS' LETTERS.
Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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Koral Mfg. Co., 26 Hawley St., Boston.
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J. B. Murdoch & Co., 645 Liberty St., Pittsburgh, Pa.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.
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William J. Smyth, Michigan Ave and 81st St., Chicago.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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W. H. Donohoe, 2 W. 29th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N.Y.
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Wm. L. Rock Flower Co., 1116 Walnut St., Kansas City, Mo.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled. Long distance telephone connections.

FLOWER POTS
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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FORGET-ME-NOTS
Forget-me-nots, 100,000 Strong Stocky Plants, alpestris blue and white, Victoria, Robusta grandiflora, Eliza Farnrobert, \$2.50 per 1000. Gustave Preytag, Hilltop Pl., W. Orange, N. J.

GALAX
H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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Finest green and bronze Galax in any quantity at lowest figures. N. F. McCarthy, 84 Hawley St., Boston.

GERANIUMS
R. Vincent, Jr. & Sons, White Marsh, Md.
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Geraniums, Strong stock. 3-in., 4c., 3 1-2-in., 6c. Rooted cuttings, \$15 per 1000. J. W. Dunford, Clayton, Mo.

GLADIOLI
Arthur Cowee, Meadowvale Farm, Berlin, New York.
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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.
Augusta gladioli, and white and light. Rowehl & Granz, Hicksville, L. I., N. Y.

GLASS
Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury St., Boston.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT
H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GRADING AND PLANTING
D. Robinson's Sons, Revere Beach Parkway, Everett, Mass.
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GREENHOUSE BUILDING MATERIAL.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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I. Cassidy, 215-21 Randolph Av., Jersey City, N. J.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.
D. Illiffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION
GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE
Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS
GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HARDY FERNS AND SUPPLIES
A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.
H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
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Michigan Cut Flower Exchange, 38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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In writing to Advertisers kindly mention Horticulture

HARDY HERBACEOUS PLANTS

M. H. Walsh, Woods Hole, Mass.
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Bay State Nurseries, N. Abington, Mass.
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Eastern Nurseries, M. M. Dawson, Mgr.,
Jamaica Plain, Mass.
Choice Hardy Perennials.
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Hardy Herbaceous Plants. Bobbink & At-
kins, Nurserymen & Florists, Rutherford,
N. J.

Hardy Perennials: extra large field-
grown clumps, three dollars and four dol-
lars per hundred. Delphinium, Coreopsis,
Digitalis, Platycodon, blue and white,
Anthemis, Hibiscus, Gaillardia, and many
other standard species. Samples sent by
express on receipt of stamps to cover cost
and packing. James Krewson & Sons,
Cheltenham, Montgomery County, Penn-
sylvania.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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John A. Payne, 260-274 Culver Ave., Jersey
City, N. J.
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Johnston Heating Co., Lexington Ave. and
29th St., N. Y.
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HEMLOCK BRANCHES

Hemlock Branches for protecting Roses,
Rhododendrons, Tender Evergreens, etc.
Butts, pointed, 3 to 5 ft., \$4 per 100; 5 to
7 ft., \$5 per 100. Tied in bundles, f. o. b.
Quincy or Brockton. Larger or smaller
branches furnished. Special prices for
large lots. Pine boughs in bundles or large
quantities. Address, G. H. Higgins, 125
Atlantic St., Atlantic, Mass.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset,
Mass.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HYDRANGEAS.

McRae-Jenkinson & Co., Cheswick, Pa.
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INSECTICIDES.

Nicotinide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil Insecticide.
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IRISES

We have 100,000 Japan Irises, the finest
collection in this country. Rowehl &
Granz, Hicksville, L. I., N. Y.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St.,
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JAPANA CUT FLOWER HOLDER

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Wm. L. Rock Flower Co., 1116 Walnut
St., Kansas City, Mo.

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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 12 W. Broadway and 227
Greenwich St., New York.
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MOSCHOSMAS

Moschosma riparium, a valuable new
Christmas flowering plant. Write for de-
scriptive circular and price list. Chas. H.
Totty, Madison, N. J.

MUSHROOM SPAWN

Wm. Elliott & Sons, 201 Fulton St., New
York.

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100 lbs. best English, \$6; 250 lbs. at 5½c.;
brick prepaid, 22c. J. J. Styer, Concord-
ville, Pa.

NICO-FUME

Kentucky Tobacco Product Co., Louis-
ville, Ky.

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NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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The Conard & Jones Co., West Grove, Pa.
Hardy Stock.
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Bay State Nurseries, N. Abington, Mass.
Herbaceous Perennials, Hardy Ornamental
Trees.

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Van Der Weijden & Co., The Nursery,
Boskoop, Holland.

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Oak Hill Nurseries, Roslindale, Mass.
Ornamental Nursery Stock.

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Nursery Stock, N. F. McCarthy & Co.,
84 Hawley St., Boston, Mass.

Choice Evergreens, Blue Spruce, etc.
Bobbink & Atkins, Nurserymen & Florists,
Rutherford, N. J.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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Selbrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.

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Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.

Orchids, Orchid Baskets, Peat.
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Ordenez Bros., Madison, N. J., Box 108.
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PALMS

A. Leuthy & Co., Roslindale, Mass.
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Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.

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Kentia, Phoenix, etc., all sizes. Write for
new price list. Julius Roehrs Co., Ruther-
ford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

100,000 Pansy Plants assorted Var.
named, \$3 per 1000; Giant flowering mix.,
\$2.50 per 1000. Gustave Freytag, Hilltop
Pl., W. Orange, N. J.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat,
Leaf-Mould, Live Sphagnum moss, Baled
Sphagnum moss, Green Clump moss, etc.
Jobbers' list on application. C. W. Brown-
ell & Co., Walden, N. Y.

**PEERLESS GLASS REPAIR
CLAMP**

Alex. Klokner, Wauwatosa, Wis.

PEONIES

Cottage Gardens Co., Queens, N. Y.
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Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

Peonies and Perennials; Peony, Phlox
and Evergreen Manuals, 25 cents each, in
stamps. C. S. Harrison's Select Nursery,
York, Nebr.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and
Wrought Pipe, Valves, Elbows, Pipe Hooks,
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

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PIPE COUPLINGS AND BOILER TUBES

Constantly on hand merchantable sound second hand pipe with new threads and couplings; also new galvanized pipe. 5000 feet 3-in. sound second hand boiler tubes with 2 1/2-in. standard pipe threads and couplings. 1000 feet 2 1/2-in. boiler tubes with 2-in. standard pipe threads and couplings very suitable for greenhouse heating. 10,000 feet 4-in. sound boiler tubes cleaned with square cut ends in any length with corking hubs if required. Pfaff & Kendall, Foundry Street, Newark, N. J.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y. For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIVET

Trained Privet: Pyramidal and standard forms; three thousand shapely plants; five to eight feet; excellent for screening and ornamental purposes; at trifling cost as with Bay Trees. Prices on application. James Krewson & Sons, Cheltenham, Montgomery County, Pennsylvania.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng. For page see List of Advertisers.

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J. Lambert, 150 Nassau St., New York, N. Y. For page see List of Advertisers.

Low-budded roses, No. 1, \$95.00; No. 1 1/2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

SEEDS

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Joseph Breck & Sons 51 and 52 N. Market St., Boston, Mass. For page see List of Advertisers.

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O. V. Zangen, Hoboken, N. J. Cyclamen Seed. For page see List of Advertisers.

I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

SMILAX
Smilax, 2 1/2-in. pots, \$2 per 100. Cash. Wm. Schaffer & Son, Dover, Del.

SPHAGNUM MOSS
W. H. Stackhouse, Prop., The Ocean County Moss & Peat Co., Waretown, N. J.
Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.
Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA
Spirea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP
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VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1183 Broadway, N. Y.

VIOLETS.
Dorsett Violets, \$2.25 per 100. Cash. Wm. Schaffer & Son, Dover, Del.
Marie Louise violet plants in large field-grown clumps, \$2.50 per 100, \$20 per 1000. Elva R. Davis, Ionia, Mich.
5000 clumps California violets, ready now, finest stock in the west, 4 1/2 c. 250 or more at 4c. J. W. Dunford, Clayton, Mo.

Violets—30,000 strong, healthy, field-grown Campbell and California No. 1, at \$2.50 per 100; \$20 per 1,000. No. 2, good plants, at \$1.50 per 100; \$12 per 1,000. Satisfaction guaranteed or money returned. None better. The California, extra large and fine clumps, packed to Carry Safely. I have shipped over 10,000 already with entire satisfaction. Chas. Black, Hightstown, N. J.

WIRE STAKES
W. W. Coles, Kokomo, Ind. Galvanized Wire Stakes. For page see List of Advertisers.

WIREWORK
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.
William E. Heilscher's Wire Works, 88 40 Broadway, Detroit, Mich.
The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

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WANTS, FOR SALE, ETC.

Advertisements in this column one
cent a word. Initials count as words.
Cash with order. All correspondence
addressed "care HORTICUL-
TURE" should be sent to 11 Ham-
ilton Place, Boston.

SITUATIONS WANTED

WANTED position by young man grow-
ing roses or carnations, either private or
commercial. 5 years' experience in latter.
G. care Horticulture.

SITUATION WANTED by gardener with
good record, private place preferred. Mar-
ried, two children. Address N., care HOR-
TICULTURE.

SITUATION WANTED in general green-
house work; single, age 35, five years' ex-
perience, commercial. Address W. W., care
Horticulture.

WANTED. Position as manager of plant
and fern growing establishment. Exper-
ienced. L, care HORTICULTURE.

FOR SALE

FOR SALE—GREENHOUSE PLANT

4000 ft. glass, 4 acres good land; dwelling-
house 8 rooms, good stable; 9 miles from
Boston; five minutes to electric and steam
cars. Doing good business and excellent
chance for increase. Address

W. J. CAIN, 134 North St., Newtonville, Mass.

FOR SALE—Well established florist busi-
ness with greenhouses in rear of store.
E. C. Thinnies, 245 De Kalb Avenue, Brook-
lyn, N. Y.

OBITUARY.

Z. DeForest Ely.

Son of late Ezra Stiles Ely D. D., of
Philadelphia, died Sept. 30, aged 56,
and was buried at Abington, Pa., on
Oct. 3, with Masonic honors. Z. De
Forest Ely was the founder of the
seed firm of that name, which at one
time was quite a factor in the seed
trade of the country. Business re-
verses of some ten years ago under-
mined Mr. Ely's health and he lived
in retirement since then until his
death. His early training was obtain-
ed in the house of Robert Buist & Co.,
of which he was at one time a partner.
Mr. Ely had a very winning, although
mercurial, mentality, and all through
his career showed a brilliant and
progressive intellect. Had he been of
a less high strung and sensitive tem-
perament it is very probable he would
have surmounted his business
troubles, but the delicate organization
snapped under the strain and forced a
retirement, which proved final. What
he did during his span of life he did
well, and he leaves a stainless record
behind him.

G. C. W.

Hugo Book.

Hugo Book, for many years engaged
in the florist business in Worcester,
Mass., died on October 4 in St. Vincent
Hospital after an operation for appen-
dicitis. He was 50 years and 27 days
old, and his death occurred on the 16th
anniversary of his marriage.

He was born in Munster Westfalen,
Germany, the son of Mr. and Mrs. Jo-
seph Book. His father was city clerk
in Munster and a well-known and re-
spected person. He was educated in
the schools at Westfalen. He settled
in Worcester and married October 4,
1891. He learned his business in the
gardens and conservatories at the
Schloss garden of Munster, capitol of
Westfalen.

During his spare time he was very
fond of hybridizing and grafting roses
and possessed a famous garden in
which he had a splendid collection.

He is survived by his wife and two
daughters, Mary, 15 years old, Amelia,
10 and a son, Albert, 12 years.

John E. Olsen.

We regret to announce the death
of Mr. John E. Olsen, an esteemed
employee of the Illinois Seed Company,
Chicago. Mr. Olsen has been asso-
ciated for many years with the Illinois
Seed Company and his death is not
only a sad loss to them but to a
host of friends in the seed business
who knew his worth. We have a letter
from President Green of the Company
expressing his deep sense of personal
bereavement. Mr. Olsen's death was
caused by appendicitis after an illness
of but five days. He leaves a wife and
a four-year-old son.

Other Deaths.

Mrs. M. Rose Wingert, florist, of
Wilmington, Del., died on October 3
at her home, 714 King street.

B. L. Alley, one of the old-time
florists of Danvers, Mass., died on
Sunday, October 6, at an advanced
age.

?

Is Your Name In The Above
List? If Not, Why Not?

Tobacco Paper

8 THE

**STRONGEST,
BEST PACKED,
EASIEST APPLIED.**

24 sheets.....\$ 0.75
144 sheets..... 3.50
288 sheets..... 6.50
1728 sheets..... 35.10

"NICO-FUME" LIQUID

OVER 40% NICOTINE

By far the
CHEAPEST.

**Furnishes the
Most Nicotine for the Money!**

JUST NOTE PRICES!

Pint.....\$ 1.50
½ Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

... Manufactured by ...

THE KENTUCKY TOBACCO PRODUCT CO.,

Louisville, Ky.

LANDSCAPE GARDENING.

Read before the Congress of Horticulture, Jamestown Exposition, Norfolk, Va., September 23, 1907, by John C. Olmsted, Brookline, Mass.

(Continued from page 454)

The Florist's Place and Limitations in Landscape Work.

Horticulture is the art of the cultivation of garden plants as distinguished from farm crops. Those horticulturists who raise or sell plants for their beauty are florists. Most florists advise as to or direct the use of ornamental plants. Many florists also branch out into the practice of landscape gardening because their technical knowledge enables them to do so well enough to satisfy those who employ them. Similarly druggists sell drugs without prescriptions of physicians, dealers sell spectacles without prescriptions of professional oculists.

Nevertheless all who can afford it should get advice on matters of landscape design from the best available professional landscape gardener, just as they should get advice as to matters of health from a competent physician. Florists should therefore avoid competing with competent landscape gardeners.

This principle of specialization of knowledge and its application to human affairs is well known to florists, but for one reason or another they do and will continue to practice landscape gardening and it must be acknowledged that to a certain extent and under certain circumstances they are justified in doing so.

The direction in which the work of florists in the field of landscape gardening is usually most open to criticism is in its esthetic qualities.

The mind of the florist is usually occupied either by practical details or is considering the beauty of particular flowers or plants. This tends to unfit him as a landscape designer. If he is to practise landscape gardening, he should subordinate beauty of plants to the beauty of the composition or design as a whole. In doing so he cannot succeed unless he studies first the requirements of the case, the utilization of its opportunities for landscape beauty, its financial limitations and so on. Then he must form in his mind, or on paper, a general plan or solution of the problem embodying such qualities as fitness, harmony, contrast, simplicity or intricacy, proportion, relation of masses, colors and so on.

But even if he refrains from designing landscape the florist should be an artist.

Faculties that Must Be Cultivated.

The very existence of florists depends upon the public demand for beautiful flowers and garden plants. If the florist is to succeed in the esthetic side of his business he must be endowed with certain esthetic faculties and cultivate them to the point of efficiency. A mere love of flowers is not sufficient, any more than an ear for music would indicate the existence of the qualities required for a successful musician. There must be the power to observe and study, to imagine combination and modifications of things seen or learned of, to mentally test them by various standards and rules and by the known effects of similar things that have been or can be seen. There must be the critical faculty, the weighing of advantages and disadvantages, the power to curb impulses and first impressions until reason has passed judgment. Perception, selection, memory, imagination, reason, application, patience and above all will power are some of the more important qualities required for a successful designing florist. All these faculties gain by experience and training and by a favorable environment.

The visual memory must be stored with beautiful things. Nature is a great storehouse of beautiful things, as well as of ugly things, so a lad should be brought up in a beautiful bit of country rather than amid long blocks of plain brick houses. But there is much in nature that is beautiful that cannot be used in the florist's work. Lichens and toad stools, for instance, include varieties having beautiful colors, yet they are not used in carpet bedding owing to practical difficulties. Therefore the visual memory is stored by visiting gardens and exhibitions and by studying illustrations, horticultural books and trade catalogues.

The selective faculty is trained by determining what is worth remembering. We must put some things in the front row of the memory, so to speak, where they can be availed of instantaneously. Other things are set behind and labeled by some bit of detail, a leaf or a bit of color or a word or a taste or a smell or by name. For very many things that may be useful the memory must refer back to the cyclopedia, an indexed periodical, a scrap book, so and so's catalogue, and so on.

The visual memory is trained by repetition, by close application forced by the will power. It is aided by as-

sociation with other sensations, by the sentiments, by novelty, by superlative characteristics and so on.

The imagination is based on memory. We can imagine nothing that has not come into our minds through the senses or that is not due to some combination of ideas previously so gained. Hence the importance of storing the memory with things worth remembering. The imagination must be guided by reason and will power to be useful, but it must be exercised and developed mainly in youth, even by the aid of beautiful things that are not useful. The imagination is stimulated by beautiful things to imagine other beautiful combinations and modifications. An ancient necklace or a decorated book cover, seen in a museum of art, may excite the imagination many years after in the designing of flower decoration. That may be both a pleasant and a useful training of the young florist's imagination, but the study of veined marble, or cloud effects or a specimen of marine alga might be pleasant but probably useless to the florist.

Value of a Scientific Training.

The reasoning faculty may be trained in various ways but may best be trained by the study of cause and effect in the natural sciences dealing with the materials to be handled or controlled by the florist. If he learns scientifically why certain color combinations are pleasing and certain others displeasing he can act as the result of reasoning when the time comes instead of trusting to his own sensations or to what people may say or to tradition. If he has studied agricultural chemistry and plant physiology and meteorology he may sometimes avoid mistakes which others fall into through the misapplication of traditional wise saws, which often for the sake of brevity or of a catching rhyme convey a half truth or even a falsehood.

The training of other faculties need not be enlarged upon. The inference to be drawn is that if the florist is to have such an education as will fit him to produce beautiful floral decoration and to make his vocation compare in esthetic standing with that of the architect and the artist mural decorator and (let no offense be taken) with the landscape architect, he should cultivate his creative esthetic faculties at least as thoroughly and by much the same means of art schools, museums, reading, converse with artists, travel and observation and by the solution of many problems of artistic design.

WILSON'S PLANT OIL

If you want to make money there is only one way. That is to have clean stock and the only way to get it is by using WILSON'S PLANT OIL.

Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
Yours very truly,
New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
GEO. A. SKENE.

Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
Yours truly,
Florham Farms, Madison, N. J., December 8, 1906.
A. HERRINGTON.

PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

ANDREW WILSON, Dept. 8,

SUMMIT, N. J.

Selling Agents for New England, R. & J. FARQUHAR & CO., 6 and 7 South Market St., Boston, Mass.

GREENHOUSES BUILDING OR CONTEMPLATED.

New.

Canton, Ill.—Jennie Keeling, one house.

Stevenson, Wash.—W. Jackson, one house.

Philadelphia, Pa.—Benjamin Yeagle, one house.

Gibson, Mich.—S. Harkema, one vegetable house.

Quincy, Mass.—Alphonse Faneuf, cucumber house.

Colorado Springs, Colo.—W. K. Jewett, conservatory.

Additions.

New Ulm, Minn.—C. Bock, 50 ft. addition.

Salem, Mass.—H. T. Conant & Co., additions.

Portland, Ore.—Thos. Ellingham, one house.

Shillington Pa.—Deeds Floral Co., four houses.

Ft. Smith, Ark.—A. A. Pantet & Co., three houses.

Philadelphia, Pa.—Charles Signer, house 16x170

Jamaica Plain, Mass.—John J. Fee, improvements.

Mitchell, S. D.—The Newburys, range of houses.

Chicago, Ill.—George Reinberg, orchid house. 25x265.

Pulton, Ill.—Hill Bros. & Kirman, five cucumber houses.

Covington, Ky.—Covington Seed Co., two houses each 20x100.

St. Paul, Minn.—St. Paul Floral Co., improvements. Holm & Olsen, palm and propagating houses.



I MANUFACTURE AND ERECT

Iron frame and wood Greenhouses of every type for commercial and private use.
If you contemplate building, allow me to submit sketch and estimate covering your requirements.

JOHN A. PAYNE,
Horticultural Architect and Builder.

Main Office and Factory:
260-274 Culver Ave., Jersey City, N. J.
Sash opening apparatus and all kinds of greenhouse structural material.

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144 6 " " "	3.16	12 14 " " "	4.80
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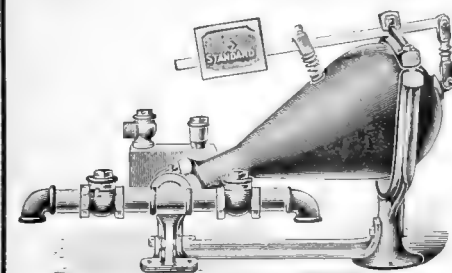
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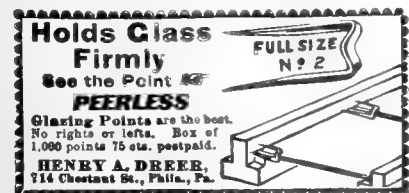
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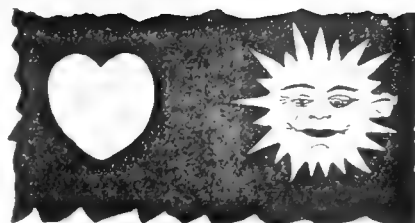
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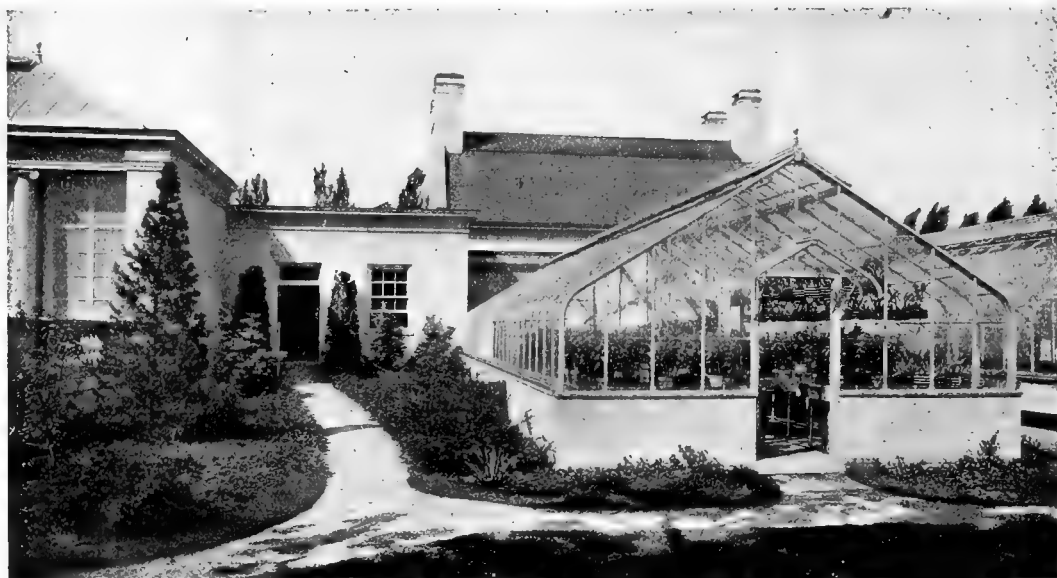
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HORTICULTURE

Vol VI.

OCTOBER 19, 1907

No. 16



CATTELEYA HARDYANA.

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20,000 Berberis Thunbergii, 18 to 24 inch.
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8,000 Red Oak Trees, 4 to 6 ft.
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40,000 Norway Spruce, White, Austrian and Scotch Pine, 1 yr transplants, 6 to 12 inch.
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Berberis Thunbergii } LAR IF STOCK.
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TO BUYERS

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Senecio clivorum



Senecio clivorum is a vigorous hardy plant with bold handsome foliage and heads of bright orange-yellow flowers carried on strong stems. It is an admirable plant for the wild garden or the fringe of the woodland, in such a position for instance as shown in the accompanying illustration. The photograph shows a large group of this senecio in the woodland at Kew, where in an open space between large trees it gives a splendid bit of color; it looks especially well in the midst of pines and other conifers for the rich yellow flowers show finely against the sombre surroundings. This species is one of several very handsome senecios introduced within the past few years by Messrs. James Veitch & Sons, through their collector, Mr. Wilson, who sent so many good plants home from western China. *Senecio clivorum* is very free flowering and a mass of plants in bloom is bound to attract attention even from a distance. Moreover the plants increase rapidly, soon developing into large clumps. They seed very freely also. Some idea of the striking effect made by a mass of this senecio may be had when I say that the individual flower heads are four inches or so across. The brown disc in the centre of the orange-yellow florets adds still further distinctness to the flower. This plant flowers throughout a long season and this year has been in bloom from the middle of July until the end of September. No doubt the continual rain that has fallen this summer has helped them to flower rather longer than usual.

Harry H. Thomas

Rose Richmond

This beautiful and fragrant rose is one of the most satisfactory and remunerative products of the greenhouse, providing of course that it is well grown, and much credit is due to the originator for giving us such an all round good thing as Richmond has proven itself to be.

To produce those high grade blooms of good color and substance with a wealth of well developed foliage

and straight stems, the grower must have a good knowledge of the food required by his crops at the different stages of their growth. As the plants increase in size and the benches fill with roots, the limited amount of nutritive substances contained in the few inches of soil on the bench will naturally become exhausted. But by a careful study of the original compost, and watching how the stock progresses, the growers will be enabled to form a correct idea of the quantity and quality of food required to supplement the waste.

It seems to be the popular belief that Richmond is a heavy feeder, but while it does enjoy a rather liberal supply of water, this, within the writer's experience applies only during the summer months, and at this season, like all other roses, Richmond objects to over-feeding or over-watering. Stock planted in May or early in June should now be strong, vigorous plants with a good showing of bottom shoots. Where this applies and the plants are in benches they would thoroughly enjoy a light top dressing of mulch, composed of two parts good manure (not too fresh) and one part soil. The soil lends weight to the material and prevents it from washing all over the bench. Where soils are particularly soft and heavy, a generous sprinkling of bone meal can be added to give stiffness to the stem and substance to petal and foliage.

It is hardly necessary to touch on the causes which lead to black-spot and mildew but during the moderate weather, and especially damp weather, it is advisable to carry a temperature of 60 degrees or more with ventilation, to avoid moisture gathering on the plants. As the season advances and steady firing becomes a necessity, Richmond will be found to do best in a night temperature of 58 to 60 degrees.

Cutting the blooms properly is a very important point which must be learned in connection with Richmond. One criticism which has frequently been directed against this variety, is its poor keeping qualities, but if the buds are cut at the proper stage of development little difficulty will be experienced in this connection and the flowers may be shipped long distances with perfect safety. We have found that if the buds are cut before they have begun to unfurl the petals, Richmond will keep very well and undoubtedly perfect every flower.

The bottom shoots, if left to grow naturally will develop good substantial buds with long graceful stems, but, unless prices are extra high, it is perhaps better to nip the top out of the heavy shoot when it reaches a height of about twelve inches, in which case at least three splendid buds will develop and can be cut with stems varying in length from fifteen to twenty inches thus producing a greater quantity of medium grade flowers.

Red-spider is very partial to Richmond and because of the peculiar cup-like formation of the leaves, is exceedingly difficult to dislodge when once it gets a foothold. Syringing should be practiced at every favorable occasion, on the principle that prevention is better than cure. It is safer to use every precaution now than to have to regret the missed opportunities when dark, dreary winter comes.

One of the most satisfactory roses to handle, one of the quickest to respond to good treatment, Richmond is deservedly popular and a lasting tribute to its originator.

J. E. Simpson

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Measuring the bulbs

It is asserted that a custom prevails with some importers of French bulbs, Japan lilies, etc., the prices which are based upon specified measurement of bulbs, to sell according to sizes not mentioned in the import invoice. For instance, Roman hyacinths paying duty as 11—15s are alleged to have been sold as 12—15s. If this be true, buyers can of course easily ascertain by measurement of the smallest bulbs supplied to them and, on finding a mixture of undersized bulbs, their right to reparation can admit of no question.

Give the young men something to do

We would suggest to those who are concerned in the filling of the offices in the club or society for the coming year that they do not overlook the young men. This advice is not new but it will bear repetition as not infrequently we see the offices and committee work confined much too closely within the lines of the older members of an organization. The great value of old and experienced members in work of importance can not be questioned but it is equally true that any organization which is careful to divide the work and responsibilities between its old-time representatives and its younger adherents is taking the best and, indeed, the only course to assure unflagging efficiency and continuous prosperity. Give the young men something to do; they will appreciate the honor and take much pride in fulfilling the duties thus imposed upon them. The busier they are kept the more loyal and enthusiastic they will prove to be.

Design in landscape work

No one who reads Mr. Canning's practical advice in regard to the value of system in private and public improvement work, which we present in another part of this issue of HORTICULTURE, will have much difficulty in calling to mind instances where the dignity and artistic effectiveness of an estate or park reservation have been sadly impaired by haphazard planting, and arrangement of grades, walks etc. Perhaps it is his own home; perhaps it is a neighbor's and, unfortunately the blemish never rights itself but becomes more and more apparent as the years pass. No argument should be needed to show that foresight and systematic design by some one familiar with the material and proficient in its use is fully as essential in outdoor arrangement as it is in the indoor planning of a home. This is even more apparent in the larger and more comprehensive questions of town improvement and no work of this kind should be undertaken without expert advice, or intrusted, as is too often the case, to the judgment of commissions or boards composed of men—however good and public-spirited they may be—which have not at least one member of recognized professional experience and ability in the various departments of landscape work.

A national question

We can think of no general duty which a city government owes to itself as a municipality and to its citizens individually and collectively more important than the protection and preservation of its trees. That this responsibility has not been fully realized in the past is no excuse for neglecting it now and public officials should be held to strict account where the life of a mature tree is concerned. In every agitation of this question there is but one place for the gardener and florist and that is on the side of the tree as against road makers, monument builders, gas companies, line men and tree enemies generally, of whatever ilk. The struggle now going on in Washington to prevent the invasion of the Botanic Garden and the needless destruction of trees of great patriotic and historic interest to make room for a statue of General Grant should call forth an emphatic support from horticulturists everywhere, whose duty it is to take advanced position before the people in such matters. As between these beautiful trees which Mr. Smith has affectionately nurtured for half a century and the blocks of "shacks" which disfigure the neighborhood of the Capitol and that otherwise magnificent thoroughfare, Pennsylvania Avenue, it should not take long to decide which should be removed to make room for a statue.

British Horticulture

A NEW FRUIT BASKET

A new collapsible basket for market purposes has been patented. The sides of the basket are composed of strong canvas, which is made vermin and mildew proof and very durable, and working on the principle of the opera hat, when not in use the rim and bottom are close together. It is estimated that the cost of transit will be from seven to ten per cent. lower when full as compared with ordinary baskets, and 30 per cent. lower when empty. Another advantage is that when empty the basket will only require about one-third of the room of the ordinary basket. This will prove a great boon to nurserymen in towns to whom the saving of space is an important consideration. The ingenious invention has been shown to several experts who have expressed a favorable opinion as to its merits.

GRASS IN THE ORCHARD

In some useful experiments conducted at the Woburn experimental fruit farm, trees grown in grass were found to have made but very poor growth five years after planting and similar results followed the grassing over of pears, cherries, and plums immediately on planting, the check given to them being very severe. A comparison of the yields obtained in New York State from apple orchards in grass and cultivated land respectively showed over an average of four years that the tilled orchards gave a uniformly larger yield than those in grass. These results are supported by some tests carried out at the Hooper Adams Agricultural College. By a series of experiments carried over three years it was shown that the stems of trees in grass had increased only 0.03 inches in diameter, while those in cultivated ground had increased 0.3 inches; the proportion in favor of cultivated land being 10 to 1.

CHAMPION POTATO GROWER

Notwithstanding that the season has been unfavorable in many districts there was a meritorious display of tubers last week at the annual show of the National Potato Society, at the South Eastern Agricultural College, at Wye. The chief awards fell to Mr. B. Ashton, head gardener to Lord Lathom, Ormskirk, who secured for the third time in succession the Carter-Findlay cup, as well as the Llewellyn cup given for the best exhibit in the show. Mr. Ashton also obtained a silver medal for the best white potato (Carter's Royalty) as well as many other prizes. For some years Mr. Ashton has been a successful exhibitor of vegetables at Shrewsbury and other shows. The other silver medal, given for the best colored potato was awarded to Mr. A. Lawson, a Scotch grower. There was a falling off in the trade section. The potato trade has lately been in a somewhat depressed state. About three years ago there was a "boom," heavy sums being paid for new varieties. In one celebrated case £100 (pounds) was paid a pound for a seedling; 14 pounds being sold for £1,400. Large sums were lost in the speculation which took place. The inevitable reaction set in, and many of the high priced varieties were tried and found wanting. The National Potato Society has naturally been affected by the "slump," but it is hoped to continue the useful work which has been commenced. It is felt that there is scope for a society of this sort in protecting the interests of potato growers, conducting trials, distributing information, and organizing shows. Like the fruit growers the potato men are very difficult to organize, owing to the fact that they are scattered over the United Kingdom, and it is hard to organize any system under

which they will be brought in touch with the managing body.

W. H. Adsett.

Gardenias

Under good management the gardenia can be had in flower during the greater portion of the year. The best time to propagate the plants is in the spring, selecting side shoots about two inches long, inserting them in pots and plunging the pots in brisk hot bed. When rooted re-pot firmly and in a few weeks pinch out the points; once pinched they will not require any more assistance to make them bushy.

When a continuous supply of young stock is wanted and the benches are occupied it will be best to grow them on in pots until spring when the benches can be cleaned out and re-filled with these plants to be flowered for one year. By this method a continuous supply of plants is always on hand and they can be used to fill any vacancies caused through disease.

Suitable soil for the gardenia consists of good fibrous loam with a little sand, leaf mold and charcoal.

The gardenia, like every other plant, has several enemies, one in particular being the most common and yet the most dreaded, for which there is no known cure. I refer to the nematode or *Heterodera Radicola*, more commonly known as root-knot, which causes a swelling at the neck of the plant and ultimately its death. This disease can be avoided by sterilizing the soil before planting and securing plants that are absolutely free from root-knot; should this be secured the difficulty in their culture would be greatly diminished.

The root-knot can easily be discovered by examining the roots. Small knots will be found even on strong vigorous looking plants. The mealy bug is another familiar lover of the gardenia. Should ample room to grow be allowed the plants these desperadoes can easily be eradicated with a good sharp spray from a hose at weekly intervals, choosing a bright sunny day for the operation.

Ventilation has also to be attended to with great care, particularly in winter, otherwise the buds will drop off and thus the most important crop of flowers of the whole year will be destroyed.

David Miller

Our Frontispiece

Cattleya Hardyana, which is depicted in our frontispiece for this week is a natural hybrid between *Cattleya aurea chrysotoxa* and *C. gigas*. The plant shown herewith was photographed at Lager & Hurrell's and well illustrates the true type of *C. Hardyana*, the character of each of the parents being equally portrayed in the flower. All the so-called *Hardyanas* coming from the *Hardyana* districts are not distinct but show a wide variation in character, some having practically reverted to the characteristics of one or the other parent.

NEWS OF THE CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The October meeting of this club was attended by between sixty and seventy members. The special feature of the evening was a talk by George V. Nash of the N. Y. Botanical Garden on Water Lilies and other Aquatics. Mr. Nash illustrated his remarks by means of numerous lantern slides, many of which were beautifully colored, showing views in the Bronx gardens, the aquatic ponds of S. C. Nash, and portraits of beautiful nymphaeas of the tender and hardy groups, nelumbiums and other bright flowering water and bog plants, also trees, shrubs and herbaceous plants and grasses suitable for the margins of lily ponds. The lecture covered methods of treatment, planting, culture, insect enemies and other pertinent subjects of interest to the lover of water plants and proved very entertaining to the audience.

The change in the by-laws, constituting a life membership on payment of \$75.00 was adopted and three new members were added to the roll.

On the platform were a number of interesting exhibits. President Totty showed some fine blooms of chrysanthemums, including E. Newman, yellow, American seedling No. 60, white, Mrs. Rider Haggard, white, Beatrice May, white, O. H. Broomhead, maroon incurved, Mme. Loiseau Rousseau and Australian seedling No. 20, old rose with gold reverse, the latter being awarded 87 points and honorable mention. A. T. Boddington showed a fine cosmos named Lady Lenox, grown by Wm. Duckham and received a certificate of merit therefor. This novelty will be introduced during the coming season. Fred Hollander of Ozone Park was awarded honorable mention for a vase of named danlias. From Robert Scott & Son came a vase of their new rose, Mrs. Jardine, to which the judges gave a preliminary certificate. From opinions freely expressed by good judges this beautiful rose is destined to take high place as a commercial florists' variety. Its parentage—Kilmarney and Liberty is a pretty good guarantee of its qualities. In color it is silvery pink, it has the fragrance of La France and as seen on this occasion is one of the most symmetrically formed and elegantly moulded blooms in the Hybrid Tea class. Dailledouze Bros. were awarded honorable mention for carnation Afterglow and H. Beaulieu showed a nasturtium with pretty variegated green and white foliage.

PENNSYLVANIA HORTICULTURAL SOCIETY.

A dozen vases of cosmos and a few vases of good early chrysanthemums were the leading features outside of routine business at the monthly meeting of the above society held on the 15th inst. Wm. Robertson got a first and a cultural certificate on Beatrice May chrysanthemum for a half dozen flowers of gigantic size and unusually good foliage. Nothing as fine in this difficult variety has ever been shown here and good judges declare no other city has yet produced their equal.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The meeting of this organization on Tuesday evening, October 16, was as usual a big one, there being fully one hundred and fifty present to hear the paper on the cultivation of fruit, by Mr. Wilfrid Wheeler. Mr. Wheeler is a worthy representative of the younger element of fruit growers in Massachusetts, fully imbued with the sentiment and love of his specialty and recognized as representing the spirit of revival of an industry which had become almost moss-grown, but which under the impetus and stimulant of new blood and modern progressive ideas promises to exert a big influence on the horticultural prosperity of New England in the near future. We will not anticipate the contents of Mr. Wheeler's address, the publication of which is deferred until next week on account of material of prior date, and will only say that it was clean-cut and practical and was listened to with close attention and was discussed at considerable length after its reading. There were on the platform many dishes of fine fruit left from the Massachusetts Horticultural Society's fruit exhibition of last week, and Mr. Wheeler made use of these frequently to illustrate his remarks and show the different varieties under varying conditions of culture. The impression generally, we may safely say, was one of hopefulness for the future prosperity of garden culture of choice fruits throughout New England districts. The various preparations for the control of San Jose scale and other insects were discussed and it was shown that while "Scalecide" is all right in its effectiveness, it is entirely too expensive for any use outside of garden culture, and that for large operations in orchard work the lime-sulphur wash is the only practical preparation, its chief drawback being the difficulty of preparing it in small quantities.

The committee on landscape classes for the coming season reported readiness to begin work at an early date, and requested that all wishing to take advantage of the opportunity offered by the elementary class and the advanced class send in their names at once. It was stated that J. A. Pettigrew had agreed to occupy three evenings of the course with instruction in practical work in road-making, tree-planting, etc., and that one of the most prominent landscape architects in New York would take charge of one evening.

There were some excellent exhibits on the platform. Nerine Fothergilla major from W. N. Craig, received a report of merit for superior cultivation. Wm. Downs received a similar award for a beautiful plant of *Celosia plumosa pyramidalis*. W. W. Rawson was given honorable mention for a vase of anemones, one of dahlias and an exhibit of colchicums. George Page of Newton Centre showed a vase of flowers of Climbing Kaiserin rose.

Messrs. Wheeler, Holbrow and Rust were appointed nominating committee to report a list of officers to be voted for at the November meeting, and eight new members were admitted.

ST. LOUIS FLORISTS' CLUB.

The local florist club held its monthly meeting on Thursday with 21 members present, President Young in the chair, and all the new officers in attendance performing their duties like veterans. A vase of dahlias was at the president's right from Henry Jenne-mann, a dahlia expert of Webster Grove. The trustees reported through their new chairman, Chas. Schoenle, that the club's show goods had not been disposed of as the offers were too small. They were given full power to act.

Votes of sympathy were extended to our friend George M. Kellogg in his loss of half of his plants by an explosion; and to the Chicago Florists' Club in the loss of their fellow-member, Edgar Sanders, who had often attended our club meetings.

Adolph Brix invited the members with ladies to attend his flower show on November 8, and the invitation was accepted. Fred Ammann of Edwardsville, Ill., spoke of the flower show of the Illinois State Fair given the past week at Springfield, of which he had charge. G. H. Pring of the Missouri Botanical Garden was called on for remarks on what he saw in England this summer. He stated that he had taken photographs of many interesting things and would give a lecture with stereopticon views before the club if desired. This offer was accepted and the December meeting selected, when the entire trade will be invited. The question box brought out many good discussions.

The next meeting of the club will come during Flower Show week, and the trustees were instructed to prepare to entertain visiting florists. On motion J. J. Beneke and Prof. H. C. Irish were added to this committee to confer with a committee from the Horticultural Society to unite in this matter. After adjournment lunch was served at a near-by restaurant where short talks were given. The club seems to have a prosperous year before it.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The nominating committee of the Massachusetts Horticultural Society announces the following list of candidates for the various offices of the Society for the ensuing year which are to be filled at the annual election, November 16: President, Stephen M. Weld; vice-president, Walter Hunnewell; trustees, for three years, Walter C. Baylies, Charles W. Parker, John A. Pettigrew, William Whitman; nominating committee, Wm. H. Bowker, John W. Duncan, J. Henry Fletcher, David F. Roy, Wilfrid Wheeler.

The members of the nominating committee for the present year are: A. F. Estabrook, W. H. Heustis, William Nicholson, E. B. Wilder and Loring Underwood.

WM. P. RICH, Sec'y.

NEW OFFICERS OF THE OLDEST FLORISTS' CLUB.

We present herewith a group picture of the new officers of the Florists' Club of Philadelphia, which has the distinction of being not only one of the most active but also the oldest trade club of its kind, having been organized in 1885 for the purpose of taking care of the Society of American Florists, which met in that city in 1886. The members of the national society were its guests again in 1894, and also last August. This is the first time in many years that an entire board of officers has been elected. The club has a membership of about 300, representing all branches of the trade and keeps its headquarters at Horticultural Hall open every week-day and evening all the year round, with a janitor and two attendants constantly in charge. The club has an open door always for visitors without introduction, and no member of the trade need ever feel lonely when visiting the Quaker City, as there is always somebody on hand at the club to spend an hour with.

William Graham.

The newly elected vice-president of the Florists' Club was born in Philadelphia in 1861. After leaving school he was employed in the office department of Washington Butcher's Sons for four and one-half years, and left only because his father needed him in his newly established floral firm. This lasted for seven years, after which in 1887 he was associated with Graham & Grigg, which was shortly changed to Hugh Graham's Sons, that title continuing until his father's death in 1903, when the William Graham Co. was established. About two years ago this firm took over the assets of his brother Hugh Graham on 13th street and Logan and moved into 104 South 13th street which is now their headquarters. The firm does a large business as growers and retailers and controls the bulk of the large floral decorative work in Philadelphia. William Graham has been popular enough to be elected to represent his ward in councils and is a high dignitary in many fraternal organizations. He is a pen and pencil artist of ability. He has long been an active member of the Schuylkill Navy, the leading sporting club of the city, and for the past year has acted as the chairman of the sports committee of the Florists' Club. His elevation to the vice-presidency is a well deserved compliment.

Fred Hahman.

The president of the Florists' Club for 1907-'08 was born in Philadelphia in 1858. His father was in the leather business, but like most of Teutonic extraction, had a taste for gardening which was largely stimulated by his close friend, George Gross, then foreman at Dreer's, and another close companion, William Joyce, gardener at the Baldwin Conservatories. Young Fred was brought up in an atmosphere of enthusiasm on gardening, which later developed into commercial floriculture. He and his father bought the place at Harrowgate Lane, Frankford, in 1875, which has been the headquarters of the business ever since. The plant contains some 30,000 feet of glass and considerable real



OFFICERS OF FLORISTS' CLUB OF PHILADELPHIA, 1907-8.

Reading from left to right:—Wm. Graham, vice-pres.; Fred Hahman, pres.; David Rust, sec'y; George Craig, treas.

Photo. by Thorburn, Philadelphia—Edwin B. Thorburn is a lineal descendant of Coll's "Laurie Todd"—the founder of the house of J. M. Thorburn & Co., the pioneer seed house of America.

estate and is devoted at present principally to the culture of roses and spring bedding plants. Fred Hahman, outside of being a successful florist, is known as an enthusiastic bee-man, having been secretary of the Philadelphia Bee Keepers' Association since its inception some 25 years ago. He married a St. Louis lady in 1885, a son and daughter being issue, the former dying in infancy, the latter now finishing her course at the Normal School. Mr. Hahman was a classmate of Alexander B. Scott in his high school days, and the friendship then formed continues to this day. He has been vice-president of the Florists' Club for two years and holds the record as a presiding vice-president, proving himself a splendid presiding officer and well deserving the compliment of being elected to the presidency. He is a good speaker, tactful, broad-minded and efficient.

George Craig.

The new treasurer is a man of enviable standing in the community in every way. Of modest and retiring disposition, his merits are nevertheless thoroughly appreciated by all who have the pleasure of his acquaintance. Born in Philadelphia at 16th and Pine streets in 1848, Mr. Craig was associated there in business with his father, Alexander Craig, afterwards removing to 211 South 11th street in partnership with his brother, Robert, under the title of Craig & Bro. This partnership was dissolved in 1890 and has since been conducted as George Craig, and the business is now one of the leading establishments in the city devoted exclusively to the sale of cut flowers and plants. He knows the business thoroughly, is conservative and shrewd, and no amount of clamor or hypnotic suggestion has ever been able to swerve him from the

judicial calm which is his leading characteristic. He has always been a faithful member of the Florists' Club. For a number of years past he has been treasurer of the house committee and his elevation to the more responsible post of treasurer of the club is a well-deserved tribute.

David Rust.

David Rust, the new secretary, is an Englishman by birth but of Scottish parentage, his forbears originally hailing from Aberdeenshire. His father was estate agent for Sir George Jenkinson, at Falfield, Gloucestershire, where the subject of our sketch was born in 1861. He started to learn the gardening profession at Barren Court, Maidstone, Kent, an estate famous for high-grade garden culture of native and exotic fruits. From there he went to Petworth Park, the seat of Lord Leconfield in Sussex, a large estate employing some 40 gardeners, where he remained four years. After a short period in the estate office of the Marquis of Abergavenny, Bridge Castle, Tunbridge Wells, he emigrated to America, commencing with Peter Henderson & Co., where he remained eight months. Thence to the gardens of the George Bullitt estate, Conshohocken, Pa. After some years here he went with the G. E. Lee Mfg. Co. as traveller, and from there to Dreer's in a similar capacity. In 1895 he was elected secretary of the Pennsylvania Horticultural Society, and has been local correspondent of the Florists' Exchange since 1892. On the resignation of Edwin Lonsdale from the secretaryship of the Florists' Club of Philadelphia he was appointed pro. tem. and afterwards elected to fill that office, a very strenuous position the past year on account of the convention. In addition he acted as superintendent of the exhibition in the same connection.

THE EXHIBITION SEASON

RECENT SHOWS.

Massachusetts Horticultural Society.

At the great fruit and vegetable exhibition in Horticultural Hall, Boston, last week, the first prize for collection of vegetables arranged for effect was won by E. L. Lewis; second, third, fourth and fifth were awarded to New Hampshire Agricultural College, Edw. Parker, W. J. Clemson and Mrs. A. P. Peabody respectively. In the regular vegetable classes W. J. Clemson won eight firsts, Ed. Parker and N. H. College each five firsts, E. L. Lewis and A. E. Hartshorn each four firsts, W. W. Rawson three, J. P. Wynman and A. Nixon two each, Mrs. J. L. Gardner, W. H. Teale, F. Cole, Ellicott Moore and C. M. Handley Estate each one first.

In the fruit department the T. S. Hubbard Company of Fredonia, N. Y., received a silver medal for display of fifty varieties of grapes. Apples, pears, quinces, peaches, grapes, cranberries, etc., were shown in great profusion, the winners of first premiums in the various classes being as follows: W. G. Kendall seven firsts, L. F. Priest six, J. S. Chase, C. F. Hayward and F. W. Dahl three each, C. F. Curtis, J. Coolidge, C. W. Libby, Indian Head Cranberry Co., A. Derby, E. Torrey, G. F. Wheeler and G. V. Fletcher two each, J. L. Bird, J. B. Shurtleff, Jr., F. W. Danion, E. B. Wilder, I. P. Gragg, E. B. Parker, F. H. Jackman, E. L. Lewis, E. E. Cole, Wilfrid Wheeler, Mrs. A. F. Estabrook, H. C. Fuller, H. A. Clark, J. Corey & Son, and A. E. Howard & Son one each.

W. C. Strong received honorable mention for seedlings of Weir's cut-leaf maple.

Worcester County Horticultural Society.

The Worcester County Horticultural Society had its 67th fall exhibition and lunch in Horticultural Hall, Worcester, Mass., on October 10. The exhibition filled the main hall and library and was open from 12.30 P. M. to 9 o'clock. During that time hundreds of people visited the hall.

The main hall was used for the exhibit of fruits and vegetables. There was a large showing of both, the apples and pears being especially fine. The flowers were good for the season of the year and filled the library. In the main hall the stage was hidden by an arrangement of palms and ferns by H. F. A. Lange.

At 12.30 o'clock President O. H. Hadwen led the march to the banquet hall on the top floor, where luncheon was served. The tables were decorated with cut flowers brought in by the members for that purpose.

After luncheon President Hadwen welcomed the guests on behalf of the Horticultural Society, and spoke a few words about the founding of the society, its work, and the exhibitions. He then called upon Gen. C. W. Wood, secretary of the State Board of Agriculture, J. Lewis Ellsworth, superintendent of Marlboro schools, O. A. Morton, J. V. Jackson of Marlboro, Charles

W. Smith, secretary of the Rhode Island Agricultural Society, E. H. Burlingame of Providence, Mrs. H. J. Jones of Holden and Secretary Adin A. Hixon for a few words.

The chrysanthemum show of this society will be held on Nov. 14.

New London County Horticultural Society.

On account of recent storms there were fewer entries than usual at the dahlia show of the New London County Horticultural Society held at Norwich, Conn., on October 5. The centre of the hall was occupied by the exhibit of O. P. Chapman, Jr., of Westerly, which included 250 varieties, embracing many of the newer kinds, and received special mention. The dahlias shown by J. J. Kennedy, foliage plants by the Geduldig estate, and grapes and strawberries by G. Newman received honorable mention. The exhibits of S. A. Gilbert and Mrs. Lanman attracted much attention. S. J. Reuter of Westerly, Otto J. Ernst and H. F. Parker were the judges.

Nassau County Horticultural Society.

There was a splendid exhibit of dahlias at the regular meeting of the Nassau County Horticultural Society at Glen Cove, N. Y., on October 9. James Duthrie of Oyster Bay took the first prize with 69 varieties, also the prizes on the cactus and show classes, as well as the Meyer special prize for the largest bloom. J. O'Brien was first in the single class. S. J. Trepass won the prize for the best collection of chrysanthemums; in the point contest on chrysanthemums, A. Janecke got 88, A. Mackenzie 87, and Henry Inatz 75.

COMING SHOWS.

Massachusetts Horticultural Society.

The following additional special prizes are offered for the Chrysanthemum Show, November 8, 9, 10, 1907.

Entries must be made at least three days prior to the opening of the Exhibition.

No. 469. For the best arranged table of cut Chrysanthemum blooms; all classes admissible; tables to be 8x6 feet; for commercial growers only; four prizes, \$40, \$30, \$20, \$10.

No. 470. For the best decorative arrangement of cut Chrysanthemums, with autumn foliage or other suitable material, filling a table 8x6 feet; all classes admissible; for retail store florists only; four prizes, \$40, \$30, \$20, \$10.

No. 471. For the best vase of one hundred Chrysanthemum blooms, of one or more varieties, in the Society's large China vases; tasteful arrangement will be considered; offered by George R. White; four prizes, \$40, \$30, \$20, \$10.

No. 472. For the best vase of fifty Roses, of any one variety; three prizes, (first prize offered by Francis Skinner), \$50, \$30, \$20.

No. 473. For the best six vases of Carnations, distinct varieties, fifty blooms each; four prizes, \$40, \$30, \$20, \$10.

No. 474. For the best made up center

piece of growing plants, suitable for a table of eight covers; offered by the Gardeners' and Florists' Club of Boston; three prizes, \$12, \$8, \$5.

No. 475. For the most tastefully decorated table of Fruits, 8x6 feet; autumn foliage and berries may be used to produce a pleasing effect, and the fruits may be of either native or foreign production; four prizes, \$40, \$30, \$20, \$10.

No. 476. For the best collection of Vegetables of fifteen varieties, not more than two kinds of any one variety admissible; the number of specimens of each variety must be as given in the special scale of points; tasteful arrangement will be considered; to assist in the decoration of the collection parsley or other vegetable greenery may be used; mere size of specimens shown will not necessarily entitle the exhibitor to the highest award; for private gardeners only; four prizes; first prize a Silver Cup valued at \$75, offered by R. & J. Farquhar & Co.; the Society offers second, third, and fourth prizes, \$25, \$15, \$10.

Note.—Savoy, Red, and Common Cabbage will be classed as distinct; so will Cos and Cabbage Lettuce; also Lima, String, and Shell Beans. Separate dishes of Tomatoes will, however, be classed as varieties of one species; this will also apply to Celery, Potatoes, and other vegetables. Melons are excluded.

Only vegetables fit for table use must be exhibited; ripe Corn and dried Beans are debarred.

This class will be judged by the appended scale of points and is for competition by private gardeners only.

For scale of points and number of specimens required of each variety, address the secretary, W. P. Rich, Horticultural Hall, Boston.

Committee on Prizes and Exhibitions, 1907.—J. K. M. L. Farquhar, Chairman; Wm. N. Craig, A. H. Fewkes, I. H. Locke, Wm. H. Spooner, Wilfrid Wheeler.

Horticultural Society of Chicago.

The Horticultural Society of Chicago has adopted the name of "Chicago's Great Flower Show" for its seven-day exhibition which is scheduled to take place at the Coliseum, November 6 to 12 inclusive. The greater portion of the main floor of the building will be covered with sod, thus eliminating dust and giving a horticultural aspect to the show which will make it doubly attractive. Among the other special features will be a booth stocked with plants to be donated to that public school securing the largest number of votes. The display of dinner table decorations will be in rooms furnished with the latest dining room effects. There will be a daily demonstration of the proper method of pruning and potting. Several silver cups for competitions by private gardeners have been promised in addition to the large list in the published schedule. The park departments promise larger and better exhibits than heretofore and altogether the outlook is for a very extensive affair. As three or four hun-

ded trade visitors are usually in attendance at the Chicago shows the inducements for commercial exhibits by growers and others are exceptional. The preliminary list of premiums can be had on application to the assistant secretary, E. A. Kanst, 5700 Cottage Grove Ave., Chicago, Ill. The final premium list is promised for next week.

San Diego (Cal.) Floral Association.

At a meeting of this society held on September 26, plans for the coming flower show were discussed and October 25, 26, 27 were the dates selected for it. A committee was appointed to solicit cups or other prizes of value from interested citizens to be offered to the exhibitors. Mrs. Rodney Stokes is secretary.

The Missouri Botanical Gardens, St. Louis, will hold a chrysanthemum show again this year in the large tent, beginning on the first week in November if the plants are in exhibition form, or as soon thereafter as possible.

Adolph Brix of St. Louis Ave., St. Louis, Mo., will hold a flower show on November 7, 8, 9, in the large hall of the Y. M. C. A., at 19th and St. Louis avenue. No admission will be charged. Mr. Brix is an enterprising florist. In addition to his large store on the avenue he has recently purchased the old Kluckenkemper place.

The following have been mentioned at length in preceding issues of HORTICULTURE:

Lenox Horticultural Society, Lenox, Mass., Oct. 23, 24. G. H. Instone, secretary.

Marin County Horticultural Society, San Rafael, Cal., Oct. 26. T. P. Redmayne, secretary.

Monmouth County Horticultural Society, Red Bank, N. J., Oct. 30, 31. H. A. Kettell, secretary.

Morris County Gardeners' and Florists' Society, Morristown, N. J., Oct. 31, Nov. 1. Edw. Reagan, secretary.

New Haven County Horticultural Society, New Haven, Conn., Nov. 6-8. Walter Koella, 58 Bishop St., New Haven, secretary.

Chrysanthemum Society of America, American Institute, 19-21 West 44th St., New York City, Nov. 6-8. David Fraser, Homewood and Penn Ave., Pittsburgh, Pa., secretary.

Nassau County Horticultural Society, Glen Cove, N. Y., Nov. 6-8. J. F. Johnston, secretary.

Denison Civic Improvement League, Denison, Tex., Nov. 6-8. T. W. Larkin, secretary.

Tarrytown Horticultural Society, Tarrytown, N. Y., Nov. 6-8. E. W. Neubrand, secretary.

Massachusetts Horticultural Society, Horticultural Hall, Boston, Chrysanthemum show, Nov. 8-10. W. P. Rich, secretary.

Horticultural Society of Buffalo, Buffalo, N. Y., Nov. 11-17. J. H. Tranter, P. O. Box 994, secretary.

Florists Club of Washington (D. C.), Nov. 12-14. Chas. McCauley, 18th & Kearney Sts., Washington, D. C., secretary.

Montreal Gardeners' and Florists'

A SCOTCH PRIZE-WINNING GROUP OF FRUIT.



The elegant little collection of fancy fruit shown in the picture was the winner of the silver challenge cup which appears alongside, at the 95th annual show of the Glasgow and West of Scotland Horticultural Society on

September 4 last. It was shown by James Brown, gardener to A. A. Spiers, Houston. The standard of quality shown in this collection of twelve dishes of fruit is, we think, high enough to make any aspiring gardener "sit up and take notice."

Club, Chrysanthemum show, Nov. 13, 14, Victoria Rifles Hall, Montreal, Que. W. H. Horobin, 283 Marquette St., secretary.

State Floral Society of Arkansas, Little Rock, Nov. 14-16.

Rhode Island Horticultural Society, Providence, Nov. 15, 16. C. W. Smith, 27 Exchange St., secretary.

Worcester County Horticultural Society, Chrysanthemum show, Worcester, Mass., Nov. 14. A. A. Hixon, secretary.

Ontario Horticultural Exhibition, Massey Music Hall, Toronto, Ont., Nov. 12-16. H. B. Cowan, Parliament Buildings, Toronto, secretary.

Maryland State Horticultural Society, Fifth Reg. Armory, Baltimore, Dec. 3, 4. T. B. Symonds, College Park, Md., secretary.

St. Louis Horticultural Society, Grand and Park aves., St. Louis, Mo., November 12-15.

Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Nov. 12-15. David Rust, Secretary.

AMERICAN POMOLOGICAL SOCIETY.

The American Pomological Society at its Thirteenth Biennial session held at the Jamestown Exposition, Norfolk, Va., September 24th, awarded to Ellwanger & Barry the Wilder Medal, for their display of fruit, consisting of 111 varieties of pears, 96 varieties of apples and 40 varieties of grapes.

Marshall P. Wilder who was for many years the president of this Society, bequeathed to the Society \$1,000, the income of which was to be used from time to time for Wilder Medals for objects of special merit. He also added a further sum of \$1,000 for other uses of the Society.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

New York, Oct. 12th, "No. 20," dark old rose (Jap) exhibited by C. H. Totty, Madison, N. J. Scored 85 points, exhibition scale.

The Lord & Burnham Company offers a gold medal for the best new chrysanthemum which has never been exhibited in this country before.

DAVID FRASER, Sec'y.

CLUB AND SOCIETY NOTES.

The Minnesota Horticultural Society will hold its annual meeting at Minneapolis on December 3, 4, 5.

The annual meeting of the Northern Illinois Horticultural Society will be held in Peo, December 4 and 5.

At a meeting of the directors of the Arkansas State Floral Society, Little Rock, on September 25, Paul M. Paley was elected manager of the chrysanthemum show.

The regular monthly meeting of the State Florists' Society of Indiana was held October 1st. The fall show will be held in A. Wiegand and Sons' conservatory, Indianapolis, the firm giving the use of the building and decorating it for the occasion.

Jesiah Young's store in Troy, N. Y., was the meeting place for the Albany Florists' Club on the 3d inst. Among other topics, that of holding the meetings in a hall was talked over, and P. Hyde, Fred Henkes and Edward Tracey were appointed to look into the matter and report.

You will find something worth reading on every page of HORTICULTURE.

NATIONAL CHRYSANTHEMUM SOCIETY.

Early Flowering Exhibition.

The English chrysanthemum season for 1907 was inaugurated on the 2nd of October under most favorable conditions, for the N. C. S. once again held its annual display of early chrysanthemums, etc., at the Crystal Palace, the opening day being an ideal one so far as weather was concerned. The weather brought out a nice company of visitors and old friends to view the show, which was an excellent one in many respects, although we do not think the attempt at artistic arrangement of the show as a whole was quite up to the standard of some previous years, nor do novelties in the early section appear to have been raised in any appreciable number since the last exhibition.

A gold medal was deservedly awarded to Hobbies' Limited, who set up a very fine display on a table of great length, broken in the middle by a huge semi-circular group of peony-flowered dahlias. On one side of this group, which was remarkable for the great size and brilliancy of the coloring of the flowers staged, was a fine collection of cactus dahlias; on the other side was a choice collection of cut roses.

T. S. Ware & Son received a similar award for an imposing display, in which cactus dahlias largely figured, relieved here and there by big clusters of Michaelmas daisies and early chrysanthemums, the best of the latter being of Perle Rose, Polly, Horace Martin, Goacher's Crimson, Miss Miller, Roi des Blancs, Perle Chatillonnaise, Marie Massee and many others of equal merit.

Wm. Wells & Co. also carried off a gold medal for a decorative group of a high order of merit both as regards quality of bloom and tasteful arrangement. The early chrysanthemum alone figured here as the prime motive. Carrie, Blush Beauty, Perle Rose, Champ d'Or, Nina Blick, Vesuve, Hector, Roi des Jaunes, were only a few of the varieties staged, and around the front of the half oval-shaped group were dotted at intervals neat little bunches of single-flowered sorts such as Nelly King, Juno, Roderick, Surrey, Charming, Good Hope, Windsor, etc.

H. J. Jones was awarded a silver gilt medal. He had a grand group arranged with a back screen of dark green drapery, in front of which were some tall bamboo supports containing 15 to 20 colossal blooms of Money-maker, Mrs. A. T. Miller and Mrs. W. Beadle. Ferns, bamboos and a few Michaelmas daisies interspersed at intervals materially enhanced the value of this high class for floral composition.

Eric Such had an immense collection of early chrysanthemums, for which he also received a silver gilt medal. We noted specially Perle Rose, LeVactole, Perle Chatillonnaise, Horace Martin, Queen of earlies, Perfection, Goacher's Crimson, Carrie, Champ de Neige and many more.

Other awards were made for early chrysanthemums to Henry Cannell &

Son, R. H. Bath and others. The competitive classes were numerous and well filled, the chief of these being for a floral display of chrysanthemums and foliage in a semi-circular space of 14 ft. by 7 ft. There were three competitors for this, Messrs. John Reed Sons being awarded first prize.

Dinner tables decorated with chrysanthemums, wreaths, sprays, vases, baskets, epergnes and other floral devices were well represented, and a very fine collection of fruit, chiefly apples in many varieties, was staged by Messrs. Spooner, who also had a silver gilt medal. The veteran grower, Norman Davis, sent some grand cut blooms of Mrs. R.H. Pearson, Mrs. Norman Davis and some new seedlings that were quite up to the November standard of show bloom, and also some vivid blue-toned varieties of Aster amellus, most striking in size and color, named Onward Major, C. Davis and Erandis.

First class certificates were awarded to H. J. Jones for a new decorative variety called Minnie Carpenter, and to Wm. Wells & Co. for a huge white Japanese, Le Cygne.

Some Dahlias at the National Chrysanthemum Society.

Although the October show of the N. C. S. is essentially one to encourage the growing and exhibition of the early flowering chrysanthemum, yet dahlias and Michaelmas daisies in great variety are to be found among the numerous miscellaneous groups sent by the trade.

At the last show the two leading types of dahlias were unquestionably the Cactus and Peony-flowered kinds, and the style of setting them up was in most cases very effective. They are often built up in masses of one color each in the form of semi-circular pyramids, with smaller clusters in vases interspersed, ferns, palms and foliage plants being introduced sometimes in front, sometimes at the back, and at other times intervening.

Hobbies, Limited, staged in the Cactus section nice blooms of Mrs. McMillan, W. Marshall, Primrose, Ruby Grinstead, but in the Peony and Decorated section they had an immense display of huge flowers of King Leopold, Nicholas II, Dr. Van Gorkem, P. H. Jansen, Baron de Grancy, Queen Wilhelmina, Kaiserin Aug. Victoria, Nodora Duncan and several others.

T. O. Ware & Son are well known as dahlia specialists, and they, too, sent a fine collection of cut blooms of Cactus dahlias and Peony-flowered. In the former class Daisy Easton, Ivanhoe, Hamlet, Mrs. H. Shoemith, Mrs. Seale, Iris, Rev. Arthur Hall, Lady Fair, F. Cadman were especially noteworthy, while in the latter Baron de Grancy, Souvenir de Gustave Dowson, Glory de Baron, La Riente, etc., excited more than usual interest among the visitors. C. HARMAN PAYNE.

October 7, 1907.

Horticulture:

Please discontinue ad. Plants are all sold.

Yours respectfully,
BLANKSMA BROS.
Grand Rapids, Mich.

THE PLACE OF SYSTEMATIC PLANTING IN IMPROVEMENT WORK.

Address by E. J. Canning before the Massachusetts Conference on Rural Progress, at Amherst.

Systematic planting is the planting of trees and shrubs according to a pre-conceived or definite plan, whether it is for the home ground, public parks and buildings, school grounds or city streets.

In all improvement work a definite plan to follow is equally as important as are plans for the erection of buildings, and I believe a competent landscape gardener is equally as important if not more so, than the architect of a building especially in the selection of a home site and in the planning of the grounds around the home. He can often save the intending builder of a home many times the cost of his fee in the selection of a home site alone, because his practiced eye can see at a glance where expensive grading may be avoided, besides taking advantage of and making the most of all the natural features a tract of land may possess. He is usually a better judge of the type of house best adapted for any particular site; the exact position the house should occupy; the best, easiest and least costly means of approach, and the possibilities of making a landscape picture of the home grounds by the proper selection and grouping of trees and shrubs, together with the cost of carrying out his plans before any improvement work is attempted. And yet it is notorious that even in these days when so many books and magazine articles have been written upon this important topic, that there are many people who will spend much time and money in perfecting plans for a dwelling, and often exhibit excellent taste in the interior decoration or furnishing of their homes, and yet give scant consideration to the setting of the home, and would never think of employing a competent landscape gardener who in the majority of cases could save the owner much money besides insuring a more valuable property. Anyone who has only the most superficial ideas of landscape gardening in going through the residence section of any large city can easily see whether the home grounds have been carefully planned or not.

Examples of a Wise Policy.

There are, however, many shrewd and far-sighted people who can and do appreciate the work of the landscape gardener. The trustees of colleges and other institutions employ landscape gardeners for the proper locating or grouping of their buildings, as well as the laying out of their grounds.

In 1893 the trustees of Smith College employed the Messrs. Olmsted, of Brookline, the well known firm of landscape gardeners, to prepare plans for the establishment of a botanic garden upon the college campus. These plans have been faithfully carried out (except in one or two minor details due to changing conditions) and have proved highly satisfactory, each year seeming to emphasize more and more how far-sighted and carefully their plans were prepared.

There are many instances in this Connecticut Valley where manufactur-

ers and other business men have employed landscape gardeners for the improvement of the grounds around their mill properties and other buildings, much to the improvement of the localities in which they are situated, as well as to the uplifting influence it exerts on the employees.

Real estate companies are falling in line with improvement work. A large tract of land in Springfield has this summer been planned to present as park-like an appearance as possible, and where each lot is considered as a part of the whole. An attractive pamphlet describing the property with a landscape plan of the whole tract has been printed, so that intending purchasers can see at a glance the proposed development of the property.

Value of Village Improvement Societies.

The artistic treatment of school grounds now so common in our New England cities and towns will in the next generation have a great influence towards making cities beautiful. A Village Improvement Society ought to be established in every town and village in the country. The proper location of streets, the selection of shade trees, their planting, proper spacing and care, should be in their absolute control; also all the small city parks, squares and triangles formed by the intersection or junction of streets should be under their direct supervision and no improvement work attempted until a definite plan had been worked out either by themselves or some competent landscape gardener in their employ.

In many of the older streets in our New England towns one may see the result of not having definite plans in the planting of street trees alone. For instance on Elm street in Northampton there are no less than six or seven different species of trees planted, while it should have been devoted to one, and that one the elm, since it is a wide street and perhaps the principal street of the city.

Then too often if the planting is left to the property owners, one man prefers to plant the trees on his own property and not in the space for the tree belt, another plants three or four trees in the space only one should occupy, another will plant elms in a thirty-foot street, or Norway maples in a one-hundred-foot street, which is just the reverse of how they should be planted. Then again some property owners will plant well-grown nursery trees while others will go to the woods and transplant any gaunt-stemmed specimen.

Judgment in the Selection of Roadside Trees.

There is always some part of the world where certain trees attain their highest development. The American elm is most at home in the Connecticut Valley for instance. It is not only one of the most beautiful of all trees but a typical New England tree, therefore it should become typical of our New England towns and villages and be planted on the main and widest avenues or where it has space to develop. Smaller growing trees should always be selected for the narrower streets.

In small city parks, where space admits, the American elm should be planted in preference to other trees.

THE DUTCHESS COUNTY HORTICULTURAL SOCIETY AT UPLANDS.



The members of the Dutchess County Horticultural Society to the number of sixty were the guests of Mr. W. P. Clyde at his beautiful estate,

Uplands, Poughkeepsie, N. Y., Sept. 27. They were escorted through the various gardens and greenhouses and fed royally. Our group picture shows how they looked after the latter operation.

I have often thought that the planting of the young pin oaks in Court Square, Springfield, evidently to take the place of the decaying elms, was a mistake. It looks like "dignity and impudence," to see a majestic looking elm in company with an upstart pin oak; not but that the pin oak is a beautiful tree, but out of place in such company. The proper grouping of shrubbery in triangles formed by the junction of streets, or around the base of public buildings and in many places to be found in all towns and villages, should always be under the supervision of a Village Improvement Society.

I would emphasize once more that a thoroughly practical and systematic plan should in all proposed improvement work be drawn whether for the home grounds, public parks and buildings, mill properties or city streets, even though a small portion can only be carried out each year, it will be found in the end far more pleasing and satisfactory than haphazard planting.

PERSONAL.

Visitor in New York this week, P. R. Quinlan, Syracuse.

Brendell & Schultz are to open a retail flower store in McKeesport, Pa.

Arthur, of Moore, Hentz & Nash, New York, who recently went under an operation for appendicitis, is back again at his post, fully recovered.

F. Gomer Waterer, of John Waterer & Sons, Bagshot, England, is a visitor in Boston this week. Also Superintendent Beatty, of Manhattan Parks.

James D. McGregor, formerly with Senator Guggenheim at Elberon, N. J., has been appointed gardener to the Hon. Levi P. Morton at Rhinecliff, N. Y.

Miss Georgia Humphrey, of Holyoke, Mass., and Charles N. Currier, of Northampton, were married on Oct. 8. Mrs. Currier will continue the business on Dwight street, which she has built up so successfully.

OBITUARY.

Mrs. Hanna Humfeld, mother of W. H. and E. A. Humfeld, passed away on October 2, in Clay Center, Kansas.

Andrew Pryal, one of the most eminent horticulturists in California, was buried, on October 1, from his residence in Berkeley.

Mrs. Laura Cooms, mother of O. B. Cooms, Jr., florist at Jamaica, Long Island, died on October 10. Interment was at Longmeadow, Mass.

E. E. Peterson, of Denver, Colo., died, on September 28, at Los Angeles, Calif., where he had gone in search of health. His body was brought to Denver for interment. A widow and three children survive him.

News of the death in Trinidad of Henry W. C. Dihm, of Astoria, L. I., N. Y., has been received. Mr. Dihm went to Trinidad several years ago, to take charge of a large floral establishment at Daladie, British West Indies. He was 54 years old, and leaves three daughters and a son.

Wm. L. Bond, of Pittsburg, Pa., died, on October 4, at the age of 81. Mr. Bond was a pioneer in the nursery business in this section; was associated for many years with A. J. Downing, and assisted him in the work on the grounds of the Smithsonian Institute, Washington, D. C. He leaves five sons.

The preliminary schedule of prizes for the exhibitions of the Massachusetts Horticultural Society in January, February and March, 1908, has been issued and copies can be procured by applying to Wm. P. Rich, secretary, Horticultural Hall, Boston. Primulas, violets, carnations, roses, orchids, azaleas, forced bulbs, hard-wooded greenhouse plants, Easter flowering plants, pansies, calceolarias, etc., are among the flowers and plants specially provided for.

Seed Trade

As far back as last June it was stated in these columns that both peas and sugar corn were likely to prove short this year, and from time to time since attention has been called to these two leading crops as likely to prove disappointing. Particular reference was made to "canner's peas" as those on which the shortage would be most severely felt. A few optimistic Micawbers took exception to these statements of facts, and with little or no knowledge of conditions predicted abundant crops of everything. Within the past week estimates of deliveries have been sent out by several of the larger growers, and they range about as follows: Alaskas, 35 to 60 per cent.; Admirals, 40 to 65 per cent.; Horseford's Market Garden, 40 to 60 per cent.; Advancers, 35 to 50 per cent.; Surprise, 35 to 50 per cent.; Prince of Wales, 50 to 65 per cent. The above figures are the high and low on each variety, the estimates of the several growers ranging between the two extremes. Only the canning varieties are given, but the general line of garden peas will average much the same.

As evidence of the severe shortage in the canning sorts, it may be said that with the exception of one very prominent firm, not a reputable grower has thus far named a price on spot peas, and the initial prices of the one referred to are as follows: Alaskas, \$1.25; Admirals, \$4.25; Advancers, \$4.75; Horseford's Market Garden, \$4.75; Surprise, \$5.00. These are the prices per standard bushel and are offered in limited quantities only.

Now as the canners' contracts for peas were as a rule much below their actual requirements, and as they will receive an average of less than fifty per cent. of their contracts, it is easy to see that as soon as they learn the real conditions there will be such a wild scramble for seed as has not been known in many years.

In view of the fact that there is an eager rush on the part of wholesale grocers and jobbers to contract cannel peas of the 1908 pack, every canner will aim to extend his acreage another year and get out every acre he can possibly handle. But where is the seed coming from? It is absolutely safe to say that it will be impossible to secure enough of the regular standard sorts, and many canners will have to put up with a nondescript lot of seed or be satisfied with a greatly reduced acreage. This brings us squarely up to the question of whether the demand has not grown much faster than the supply, or in other words, whether consumption has not overtaken production. There seems to be but one answer—that it has.

It may be well here to call attention to an article which appeared in these columns several weeks ago on the subject of growing prices, and every grower, and in fact every one interested in seed peas, is invited to read it thoughtfully and decide in the light of present experience whether the writer's position was not well taken. The arguments seem to be unanswerable, and his views have been vindicated much sooner than might have been expected.

Of course the mere raising of growing prices will not result in an imme-

diate increase in the supply of seed. But this will come in time as surely as effect follows cause. In any event the growers will have to revise their estimate of yields, as they cannot continue doing business on a basis where the chances are three or four to one against them.

Referring again to the subject of supply and demand, some figures may be interesting. In 1900 the total output of canned peas in the United States was, in round figures, about 2,500,000 cases, while that of 1907 is something over 6,000,000. It is hardly necessary to say that the increase in seed stocks has not kept pace with this enormous increase in the canned product, and the growers find themselves so greatly outstripped that they are utterly unable to cope with the situation now confronting them.

As might be expected, there is much wailing and gnashing of teeth from the canners, and the seedsmen and growers are roundly abused. But let these gentle purveyors of more or less pure foods ask themselves if they are wholly free from responsibility for the present situation. Have they been willing to pay the careful grower a price that would enable him to maintain and improve the quality of his seeds stock, and in time allow him to accumulate sufficient to meet their needs? Have they not played low grade, inferior seed against high grade pedigree stocks and compelled the growers of the latter to at least compromise their prices to get business? Have they not most persistently urged guarantees and other onerous conditions which they would not be willing to grant to their customers?

There is no desire to shield the seed grower's neglect where he has been negligent. There should be cordial co-operation between he and the canner, but while many canners are heaping blessings (?) on the head of the seed grower, we may well say, "Let him who is without fault cast the first stone."

Not much has been said about those peas most largely used by seedsmen, and while it is no doubt true that the demand from market gardeners has declined in many sections, much in proportion as the output of canned peas has increased, yet it is still large. The call for early peas has fallen off greatly no doubt, but the output of the large podded varieties, such as Gradus, Telephones, Duke of Albany, etc., has largely increased as a whole. It may also be said that the falling off in the planting of early peas is not wholly due to the canned product, but in many localities to the inability to secure pickers.

The great shortage in sugar corn seed is beginning to dawn on the seedsmen and canners, and it is reliably reported that several thousands of bushels have recently been sold to canners at prices which, to say the least, are surprising; but if information to hand proves correct, the highest levels have not yet been reached.

According to the Government report, the potato crop is some ten points below last year. The Maine crop is undoubtedly very poor in quality, fully fifty per cent. being affected with rot, and it is said that not over 25 per cent. will survive the winter. New York

state, Michigan, Wisconsin and Minnesota all report short crops, but the quality in the main is said to be excellent. However, potatoes will certainly be on a higher price level than last year, and particularly choice planting stock.

Japanese exporters, under the incentive of general crop failures, have competed in buying up small stocks wherever found, and all bulb supplies are already well reduced all over the country. The recent floods damaged the longiflorum giganteum crop greatly, and the shortage on this line is very pronounced.

Lilium speciosum magnificum is said to be in many respects much superior to the popular *Melpomene*, growing taller, having larger flowers and blooming earlier. This lily is being grown extensively in Japan and when better known will take a position of precedence here.

Daniel Deemer succeeds W. D. Elbert as manager with the Gobin-Elbert Seed Co., Rocky Ford, Colo.

PUBLICATIONS RECEIVED.

Perfection Chemical Co., Flushing, N. Y.—Folder of Carman's Antipest, a concentrated insecticide highly recommended.

Andorra Nurseries, Chestnut Hill, Pa.—Price list of specimen trees, shrubs, roses and fruit. A comprehensive and handy little volume.

Vincent Lebreton, Angers, McHutchison & Co., N. Y. Agents.—Wholesale Trade List for Autumn, 1907, and Spring, 1908, ornamental trees, shrubs, roses, etc.

The Transactions of the Massachusetts Horticultural Society, Part 1, for 1907, has been received. This comprises the lectures and discussions of last winter, and the inaugural meeting and official reports at the beginning of the year.

Annual Report of Office of Experiment Stations, U. S. Department of Agriculture, 1906. This publication, a book of 454 pages, covers a vast territory in its accounts of experiment station investigations, educational work, college administration and cultural demonstrations, comprising all sections of the United States, Hawaii, Porto Rico and foreign stations in all parts of the world. It contains sixteen half-tone plates besides elaborate text figures, and the text matter prepared by Dr. A. C. True will well repay a careful reading by anyone interested in

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8 lbs., \$1.00

Treatise: How to Grow Them.

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Agriculture and Horticulture. It is essentially a record of progress.

The Long Island Agronomist, "a fortnightly record of facts, together with deductions based upon Nature's practical demonstrations," compiled by Hal B. and Edith Loring Fullerton and issued by the Long Island Railroad Company, is a unique sheet which has been sent out periodically during the past summer. Weather observations, fruit conditions, etc., at the Wading River Experimental Station are included in the contents, and evidently a sentiment is afoot to prevent Long Island from being at once cut up into house lots. Very wise.

The widow of H. C. Baartman, of the firm of Baartman & Koning, Sasenheim, who was drowned by the foundering of the SS. Berlin last spring, brought action against the Great Eastern Railway Company and has been awarded 1,500 pounds in the London courts.

Messrs. BARENBRUG, BURGERS & CO. Grass Seed Specialists [ARNHEIM]

beg to announce that samples and prices of the new harvestings of natural grasses have been forwarded to the trade. Any house that may inadvertently have been overlooked, are respectfully asked to communicate with Messrs. Barenbrug, Burgers & Co. direct, or to their general agent for the United States and Canada, Mr. George C. Watson, Dobson Building, 9th and Market Sts., Philadelphia, who will be glad to answer all inquiries and keep those interested posted on the state of the market. All quotations are freight paid to Baltimore, Philadelphia, New York or Boston.

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We are in possession of a fine consignment of roots from Holland, true to name, from 4 to 5 eyes to each division. Varieties such as Modeste Guerin choice rose, Officinalis Rubra red, Festiva white, Mutabilis rose, Rosa Magna cherry red.

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Are ahead in growth and flowers. Bloodred, Carmine, Pink Pure White White with Carmine Eye. Each color separate. Tr. pkt., \$1.00; 1000 seeds, \$6.00. An even mixture of the above 5 colors tr. pkt., 75c; 1000 seeds, \$5.00. For larger quantities, special quotations.
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Address all communications to our permanent address
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**The Largest Seed Growers
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Florists can place their bulb orders to best advantage with us: special stocks of Hyacinths, Narcissus, Tulips, all carefully selected for Florists' trade. Prices are low, considering quality.

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WHITE ROMAN HYACINTHS

12x15, \$3.00 per 100, \$23.50 per 1000
15x18, 4.00 " 38.00 "

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All the best varieties in separate colors

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Unsurpassed for size of flowers.

Giant Crimson Giant Pink
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100 seeds, \$1.25; 1000 seeds, \$10.00

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HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

NEWS NOTES.

A new greenhouse on the estate of Thomas Watkins at Sea Cliff, N. J., was badly damaged by the gale on Oct. 7.

Robert E. Berry has been appointed by Superintendent Parsons as arboriculturist and gardener at Central Park, New York.

The Wellsville Cut Flower Co., of Wellsville, N. Y., A. C. Boyce, proprietor, has a promising new scarlet carnation, Clarabelle Worth.

Ellwanger & Barry have received an order for nursery stock, from the United States Government, to be shipped to the Philippine Islands.

At the recent exhibition in New York, Ellwanger & Barry were awarded 2 first prizes for pears, 2 for grapes, 1 for plums, 1 for quinces and a special for apples.

One of the large greenhouses of the Halifax Garden Co., Halifax, Mass., was blown down in the storm of Oct. 8 and all of the houses felt the effects of the high wind.

We learn from Nathan Smith & Sons that their new chrysanthemum, Golden Glow, is meeting with exceptional favor. In our opinion it is well entitled to permanent popularity.

It is stated that the entire floor of the Coliseum will be sodded and turned into a park effect with gravel walks on the occasion of the Chicago flower show, November 6 to 12.

A combination of dealers is reported, with the intention of controlling prices of French nursery stock. If the scheme is successful, higher prices may be looked for within a short time.

Flower Carnival Day will be celebrated at the Jamestown Exposition on Oct. 21. Mr. Heinrich, gardener of the Exposition, will enter vehicles decorated with flowers grown on the grounds.

In an electric storm that visited Chicago recently the greenhouse of Carl Thill in Rogers park was struck by lightning and the chimney was destroyed, in addition to much damage to glass.

Mann & Brown, of Richmond, Va., have purchased the place that they have occupied for several years and will make extensive improvements on the buildings. \$30,000 is said to be the price paid.

Philip C. Warner, florist, of Dayton, Ohio, while crossing the street car tracks on Oct. 6 was struck by an ap-

proaching car and seriously if not fatally injured. He was taken to the St. Elizabeth Hospital.

One of the large willows on the margin of the pond in the Public Garden, Boston, having a trunk diameter of 4 feet, was uprooted by the storm on the night of October 7. Many other objects in the garden were more or less injured.

Lager & Hurrell recently purchased a quantity of established cypripediums which proved to be covered with scale. They state that they used Wilson's Plant Oil, which is advertised in Horticulture, and one application completely exterminated the scale.

A concrete pit, 40 x 60 ft., for the storage of half-hardy plants and shrubbery is being constructed at Mt. Auburn Cemetery, Cambridge, Mass., also a propagating house connected therewith for the propagation of hardy ornamental shrubbery for the nursery.

Victor Dorval, Sr., Victor, Jr., and one or two workmen at the greenhouses at Woodside, N. Y., were scorched by the explosion of gas accumulated in a cesspool which they had opened and undertook to examine by lowering a lighted candle.

The Holland-American Line docks at Hoboken, N. J., are coming in for some severe criticism on account of their overcrowded condition and lack of system in handling freight. Confusion reigns and importers find it almost impossible to get goods within reasonable time.

Lager & Hurrell are having their orchid houses at Summit, N. J., equipped in part with the Wilson concrete benches. These benches are put up by John Wilson, of Short Hills, and are likely to come into general use as a substitute for wooden construction. The supports, as well as the bench proper, are made of concrete, reinforced with strands of twisted wire, and are practically indestructible.

PLANT IMPORTS.

There were entered at the port of New York during the week of October 9 to October 15, inclusive, the following plants, etc.:

Via Rotterdam, C. C. Abel & Co., 93 cs. bulbs; H. F. Darrow, 106 cs. plants, 20 tubs laurel trees; John Dunn, Jr., 35 cs. plants; W. Elliott & Son, 11 cs. plants, 1 cs. bulbs; W. Hagemann & Co., 85 cs. plants; J. W. Hampton, Jr., & Co., 12 cs. do.; O. G. Hempstead & Son, 40 cs. do.; Hirsch & Smith, 10 cs. plants; R. F. Lang, 10 cs. bulbs; McHutchison & Co., 63 cs. plants, 5 cs. bulbs; Maltus & Ware, 502 cs. plants, 10 tubs do., 16 cs. flower roots, 53 cs. bulbs, 93 cs. trees, 32 cs. trees and shrubs; P. Ouwerkerk, 13 cs. trees; P. H. Petry & Co., 10 cs. bulbs, 4 cs. plants; T. C. Pollock, 9cs. plants, 7cs. bulbs, 6 cs. flower roots; August Rolker & Sons, 51 cs. plants; A. Schultheis, 26 cs. do.; Vanghan's Seed Store, 1 cs. do., 2 cs. bulbs; R. M. Ward & Co., 37 cs. plants; Sundry Forwarders, 85 cs. plants, 6 cs. bulbs.

Via Southampton: J. Geille, 7 cs. bulbs; O. G. Hempstead & Son, 2 cs. plants; Hussa & Co., 3 cs. do.; Rooney & Spence, 12 cs. do.

Via Antwerp: J. Bartle, 20 cs. plants; H. F. Darrow, 31 cs. do.; John Dunn, Jr., 6 cs. do., 10 tubs laurel trees; J. W. Hampton, Jr. & Co., 2 cs. plants; O. G. Hempstead & Son, 19 cs. plants; Peter Henderson & Co., 20 cs. plants; Hussa & Co., 64 cs. do., 4 baskets do.; McHutchison & Co., 10 cs. do., 412 tubs laurel trees; Maltus & Ware, 219 cs. plants, 8 tubs laurel trees; August Rolker & Sons, 24 cs. plants; P. H. Petry & Co., 66 cs. do.; John Scheepers & Co., 35 cs. do.; Ter Kuile, 15 cs. do.; Wakem & McLaughlin, 4 cs. do.

From Germany: John Scheepers & Co., 2 cs. lily of valley pips; A. Schultheis, 1 cs. plants.

Via Liverpool: Davies, Turner & Co., 1 cs. bulbs.

THOUSANDS OF ORCHIDS

In sheath, bud and flower.

Write for particulars and catalogue.

JULIUS ROEHRS COMPANY,
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Arrived in perfect condition *Cattleya Mossiae*, also *C. Schroederæ*, *Laelia Anceps*, *Epidendrum Vittelinum*, etc., etc. Write for prices.

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Just to hand, *C. Trianae*, *C. labiata*, *C. Mossiae*, *C. Intermedia*, *C. Schroederæ*, *C. Speciosissima*, *C. Citrina*, *C. Gaskelliana*, *Laelia Anceps*, *L. Albida*, *L. majalis*, *L. Autumnalis*, *Epidendrum Vittelinum majus*, *E. Cooperianum*, *Oncidium Crispum*, *O. Varicosum*, *O. Cavendishianum*, *O. Lundum*, *O. Odonto*, *Citrosium*. To arrive in a short time, *C. Dowiana*, *C. Aurea*, *C. Warnerii*, *Miltonia Vexillaria*.
CARRILLO & BALDWIN SECAUCUS, N. J.

Just Arrived in First Class Condition

C. Trianae, *C. Percivaliana*, *C. Speciosissima*, *C. Gaskelliana*, *Oncidium Kramerianum*.

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Various Types of Iris.

	Per doz.	Per 100.
<i>Fœtidissima variegata.</i> (Variegated Gladwin)....	\$1.50	\$10.00
<i>Ochroleuca.</i> (Gigantea.) Grows 4 to 5 feet high, with white flowers similar to I. Hispanica	2.00	15.00
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<i>Pumila Hybrida Cyanca</i>	1.50	10.00
<i>Pumila Hybrida Eburnea</i>	1.50	10.00
<i>Sibirica.</i> Strong divisions	1.00	7.00
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Iris Kaempferi (Japanese Iris).

Twelve Choice Single-flowering or 3 Petaled Varieties.

No.	
1.	<i>Iso-no-nami.</i> Silvery white veined throughout with violet—the earliest in flower.
11.	<i>Hano-no-nishiki.</i> Violet purple veined with white.
12.	<i>Shippo.</i> Light lilac veined with purple.
14.	<i>Shishi-ikari.</i> White ground densely veined and suffused with dark purple.
15.	<i>Gekko-no-nami</i> A very early pure white.
16.	<i>Kumoma-no-sora</i> Silvery white suffused throughout with soft light blue; appearing transparent.

43. *Shi-un-ryo.* White, veined with violet blue.
55. *Shuchiukwa.* Crimson purple with white veins and large white halo.
62. *Misutmoshito.* White, marbled with violet purple.
75. *Otome.* A rich shade of violet purple, sometimes marked with white.
76. *Line-no-yuki.* White, veined and dotted bright purple.
96. *Tebotan.* Violet blue with prominent white veins.

Ten Superb Double-flowering or 6 Petaled Varieties.

4. *Yomo-no-umi.* The finest double white variety.
5. *Koki-no-iro.* Light violet with white veins.
20. *Kuma-funjin.* White ground with a broad border of bright rosy lilac veined with white.
26. *Uchiu.* Bright crimson purple with few white veins.
54. *Ho-e-jo.* Rich velvety purple with crimson shadings.
68. *Waku-hotai.* White, veined throughout with violet blue.
72. *Uji-no-hotaru.* Bright violet purple shaded with blue.
91. *Kan-ran.* White, densely veined in centre of petals with rich violet purple.
95. *Raiden.* White ground, densely dotted and blotched with violet.
69. *Fuji-miae.* White, veined and traced with aniline blue.

Price of Strong Roots of Japanese Iris.

Named Sorts (order by name or number). 15 cts. each; \$1.50 per doz.; \$10.00 per 100. Set of 22 Varieties for \$2.25.
Choice Mixed Varieties. \$1.25 per doz.; \$8.00 per 100.

Iris Germanica.

Our collection of German Iris is very choice, the varieties offered being the best in their respective colors.

- Bridesmaid.* Standards pale parma violet, falls deeper, reticulated with violet purple.
Celeste. Standards and falls a lavender blue shading lighter towards the centre.
Cherion. Standards lilac mauve, with metallic sheen, falls violet mauve shading to a bluish violet at edges.
Edith. Standards light plumbago blue; falls violet purple with white veins.
Florentina Alba. Sweet scented, early flowering white.
Honorabilis. Standards bright Indian yellow; falls chestnut red with yellow and white markings.
John De Witt. Standards bluish violet, shading lighter towards the centre, falls deep violet purple veined with white.
L'Avenir. Falls and standards ageratum blue, shading lighter at base of petals with brown veins.
Lord Salisbury. Standards amber white; falls dark violet purple with white veins.
Madame Chereau. Standards and falls pure white, prettily edged with light blue.
Ossian. Standards straw yellow, falls bluish violet with creamy white veins.
Plicata. Standards bright violet purple; falls deep violet purple with lighter shadings.
Queen of May. Standards bright violet with rosy sheen, falls of lilac blue.
Shakespeare. Standards straw yellow veined with burnt umber falls deep carmine violet, shaded deeper and white veins.
Spectabilis. Standards light violet purple, falls deep violet purple with dark shadings, one of the earliest to flower.
Walneri. Standards parma violet, shading lighter towards edges, falls bluish violet marked with white at base.
Price. 10 CENTS EACH; 5 CENTS PER DOZEN; \$6 PER 100.
Mixed German Iris. all colors. 60 cents per dozen; \$4 per 100.

For full and complete list of **Pæonies, Phlox** and other **Hardy Perennial Plants**, as well as all other seasonable **Plants, Bulbs and Seeds**, see our new **Wholesale Price List**.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA, PA.

A FIRST-PRIZE AUTO DECORATION.



The accompanying picture shows the automobile decoration winning the first prize as the most original and artistic in the great Arverne Floral Parade on September 1, 1907. The decoration was the work of A. Warendorff, of New York.

NEWS NOTES.

W. R. Goff has taken a position with M. H. Barton of Westfield, Mass.

The directors of the New York Cut Flower Co. had their regular monthly meeting last Tuesday, October 15, 1907.

C. Campbell's store in Montreal is receiving important alteration. The two front windows are being completely renewed. Miss R. Campbell is back again from a trip in the West.

Carl C. Gilmore, formerly connected with the South Kenton Greenhouses, has transferred his business to 213 East Franklin street, Kenton, O. Until his greenhouse is completed he will have a stand at Krause & Ochs' store.

The growers of cut flowers from Bay-side, Great Neck and Manhasset, Long Island, are compelled to send their flowers to commission men instead of the flower market, the Long Island Railroad having taken off the regular morning train.

Henry M. Robinson & Co., Boston, will on October 29th celebrate the anniversary of their establishment as wholesale florists at their present address. They have had a prosperous year and extend an invitation to their friends and the trade generally to call and partake of their hospitality on that date at 15 Province street, Boston.

One of the greatest treats that the flower-loving public of Washington, D. C., has had in some time was furnished by Z. D. Blackstone last week in the way of a dahlia exhibit, the finest thing of the kind up to date. To all registered visitors bunches of dahlias were presented. Mr. Blackstone is well known as the vice-president of the Florists' Club as well as one of the most public spirited florists of Washington.

NEW RETAIL FLOWER STORES.

Mrs. John Smith, at 262 East 31st street, Chicago.

Chas. Fick, at San Mateo, Calif.

Miss Clack, at Palo Alto, Calif.

C. A. Espilin and J. T. Warren, at Fort Collins, Colo.

J. A. McLellan at Brainerd, Minn.

Fay Floral Co., 9 South 7th street, Kansas City, Kan.; D. H. Drummond, manager.

Fifth Avenue Floral Co., branch at 47 N. High street, Columbus, Ohio.

BUSINESS CHANGES.

Henry Collins, lately with Houghton & Clark, has taken a lease of the Sibthorpe greenhouses at Wellesley, Mass.

J. B. Murdoch & Co., of Pittsburg, Pa., will remove to 714 Pennsylvania avenue as soon as improvements are made.

J. S. Pollard, of Eldorado, Ia., has purchased the greenhouses of Theo. Souers at Grundy Center, and will remove them to his place.

Braxton, formerly of DeKalb avenue, Brooklyn, N. Y., has taken the store of A. Warendorff, Seventy-sixth street and Madison avenue, New York

Miss Carmichael, with Jos. Bennett for years past, has opened a store at No. 662 St. Catherine street, west, Montreal. She has her sister as assistant.



TIME IS MONEY

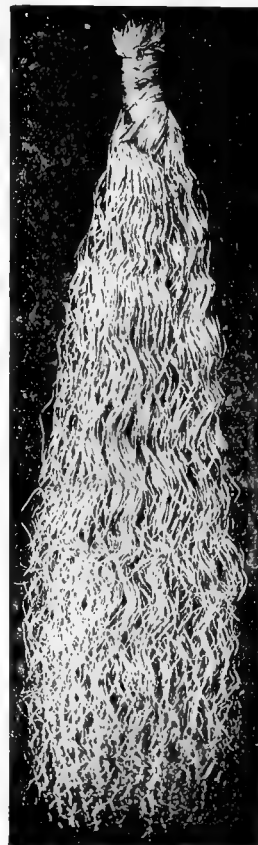
Save $\frac{1}{2}$ the time greening your designs by using **FLORISTS' GREENING PINS**

20c per lb., and you get from 1000 to 1100 to the lb. Ten lbs. or over, 15c per lb. Write for prices on larger quantities

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A skein of raffia is an every-day necessity wherever floriculture or horticulture are carried on. Raffia is the favorite tying material with the plantmen for several reasons. Not the least of these is its comparative inextensibility, but greatest of all is the fact that it neither stretches nor shrinks under the influence of heat or moisture. Once properly adjusted, a tie of raffia does not loosen, releasing that which it was intended to hold; neither does it shrink and cut the plant, perhaps to ruin it. It is soft and pliable, and does not break or ravel when folded or knotted. These qualities bring raffia into general use for many purposes in nurseries and greenhouses, where heat or moisture are always found.

Raffia is also especially adapted for grafting.

WHERE TO OBTAIN RAFFIA

We import only the best selected stock. It costs more, but it is money well spent. We can, therefore, offer a choice grade, selected on account of its clear color for dyeing purposes. The strands are broad and of good length.

We carry in stock an assortment of 20 different colors, including brown, 2 shades; blue, 2 shades; green, 4 shades; red, 3 shades; old gold, orange, yellow, pink, purple, black and white.

Prices on application. Color samples free.

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Sizes in Stock per 100

3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

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A handy article for florists. Sells to the trade on sight. Made of glass in three sizes. The "Anglais" Table Decoration, something entirely new, long needed. The florist and housewife will appreciate this article, as it simplifies the art of table decorating

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Fine Design Work a Specialty

WILLIAM L. ROCK FLOWER CO.
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will carefully execute orders for Kansas City and any town in Missouri or Kansas.

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Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.
11 NORTH PEARL ST., ALBANY, N.Y.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by . . .

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571 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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Deliver orders from any part of the country to
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Cattleyas, \$50.00 per hundred, Valley \$4.00 to \$5.00 per hundred; Chrysanthemums, best varieties, fancy stock \$2.00, \$3.00, and \$4.00 per dozen.

Strings of Asparagus Plumosa, finest in the country, \$1.00 each.

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WHOLESALE FLOWER MARKETS TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	Oct. 15		Oct. 12		Oct. 14		Oct. 17	
ROSES								
Am. Beauty, Special.....	30.00	to 35.00	.....	to 35.00	25.00	to 35.00	25.00	to 35.00
" Fan. & Ex.....	20.00	to 25.00	.....	to 25.00	15.00	to 25.00	15.00	to 20.00
" No. 1.....	10.00	to 15.00	.....	to 20.00	12.00	to 15.00	12.00	to 15.00
" Lower grades.....	5.00	to 8.00	.....	to 15.00	8.00	to 10.00	4.00	to 8.00
Bride, 'Maid, Golden Gate, F. & S.....	5.00	to 8.00	6.00	to 8.00	8.00	to 10.00	5.00	to 8.00
" " Extra.....	.....	to	2.00	to 6.00	.....	to	3.00	to 4.00
" " No. 1 & lw. gr.	2.00	to 4.00	2.00	to 4.00	3.00	to 5.00	2.00	to 3.00
Liberty, Richmond, Fan. & Sp.....	5.00	to 8.00	6.00	to 8.00	6.00	to 8.00	4.00	to 8.00
" Lower grades.....	2.00	to 4.00	4.00	to 6.00	4.00	to 6.00	1.00	to 2.00
Chatenay, Morgan, Fan. & Sp.....	.....	to	4.00	to 6.00	.....	to	4.00	to 8.00
" Lower grades.....	.....	to	3.00	to 4.00	.....	to	1.00	to 2.00
Kaiserin, Carnot, Fan. & Sp.....	6.00	to 8.00	4.00	to 6.00	5.00	to 8.00	6.00	to 8.00
" Lower grades.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Killarney, Wellesley, Fan. & Sp.....	5.00	to 8.00	6.00	to 10.00	4.00	to 6.00	6.00	to 8.00
" Lower grades.....	3.00	to 4.00	5.00	to 6.00	3.00	to 4.00	2.00	to 4.00
CARNATIONS								
Fancy and Novelties.....	2.00	to 3.00	2.00	to 4.00	2.50	to 3.00	2.00	to 3.00
Ordinary.....	1.00	to 1.50	1.50	to 2.00	1.00	to 2.00	1.00	to 2.00
MISCELLANEOUS								
Violets.....	1.00	to 1.00	.50	to .75	.50	to 1.00	.50	to 1.00
Cattleyas.....	50.00	to 60.00	35.00	to 60.00	.....	to 60.00	.....	to 50.00
Lilies.....	15.00	to 18.00	12.50	to 17.00	15.00	to 17.00	12.00	to 16.00
Lily of the Valley.....	3.00	to 5.00	3.00	to 5.00	.00	to 5.00	2.00	to 4.00
Gladioli.....	3.00	to 6.00	1.00	to 2.00	3.00	to 6.00	2.00	to 4.00
Chrysanthemums, Fancy.....	15.00	to 35.00	20.00	to 35.00	.....	to 25.00	16.00	to 25.00
" Ordinary.....	.....	to	8.00	to 12.00	.....	to 10.00	5.00	to 10.00
Adiantum.....	1.00	to 1.50	.75	to 1.00	.....	to 1.50	.50	to 1.50
Smilax.....	12.00	to 15.00	12.50	to 15.00	15.00	to 20.00	8.00	to 12.00
Asparagus Plumosus, strings.....	35.00	to 50.00	50.00	to 60.00	50.00	to 75.00	to 50.00
" " & Spreu. (100 bchs.)	35.00	to 50.00	25.00	to 35.00	50.00	to 75.00	20.00	to 50.00

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1129 Arch Street, - PHILADELPHIA, PA.

Flower Market Reports.

BOSTON Trade is very good and the outlook is encouraging. Flowers are moving quite freely in response to a general demand from local and outside sources for weddings and other occasions requiring flowers in quantity. Chrysanthemums are coming in but not too plentifully as yet and are, as a rule, in medium and ordinary grades only. Roses are not in excess of the requirements and their quality is much improved. Top grade now is quite a different flower from the top grade bloom on which quotations were given two weeks ago. Carnations are still far from standard in many respects, stems particularly being deficient, and the white varieties are scarce and have enjoyed a very brisk sale for the past two weeks since the asters dropped out. Wholesale dealers express satisfaction with market conditions generally.

BUFFALO The fall trade still keeps up at a good pace, everyone seeming to have their hands full with wedding decorations and other social functions. The flower market has been in a rather healthy condition save one or two days the previous week. A couple of warm days brought on the stock a little faster than desired, and prices were lower than at first of week. Beauties were not as much in demand, but chrysanthemums sold well. The early varieties, Kalb, Pacific and Polly Rose, came in quite abundantly for a day or so, but prices held firm. In Monrovia the quality is excellent, and it is no hard matter to dispose of them. Other stock, such as gladioli, dahlias, cosmos, violets, lily of the valley, and all varieties of tea roses, moved quite freely and a good week's business was had by all.

DETROIT A rather uneventful week has passed and its cause may be found in the general enthusiasm with which the people followed the baseball score. Unfortunately yellow chrysanthemums, the flower of the local fans, were very few and what there were seem to have been spoken for by Wm. B. Brown, who landed the order for the floral tiger to be presented by the city to the local baseball team. Chrysanthemums are coming in increased quantities and sell readily. Carnations and violets are below the demand but roses are rather plentiful. A new design called "Swastika," the form of an old Indian cross, has of late been used in floral work as an emblem of good luck in place of the horseshoe.

INDIANAPOLIS The retail demand is growing daily. There is a market for everything that is good and none too much stock. A marked improvement in all stock is evident. There continues to be an excellent demand for Beauties; in fact all good roses sell well, the extra select grade bringing top quotations. The quality and quantity of carnations is better than a week ago. Dahlias are cutting quite a figure now and will till the frost nips them. Plenty of good lily of the

valley is to be had but it is not moving very well. The supply of cattleyas is well up to the demand. Chrysanthemums have begun to appear in large numbers; the prices hold up well. Wild smilax and boxwood have a good call. The market is well stocked with all kinds of greens.

NEW YORK Business is spasmodic, one day full of encouragement, the next day dull and dispiriting. The views regarding the outlook as expressed by observant florists, both wholesale and retail, are divergent, some holding that the indications are for a very favorable floral season and others predicting the duller season for many years. It is probable that the views last quoted find their origin in the fluctuations of Wall street while the former are based on the excellent crops and high prices for agricultural products which have prevailed. Chrysanthemums of high degree and low degree are abundant on all sides and the daily receipts are rapidly growing larger. Dahlias are still abundant and jostle the chrysanthemums with a persistency that is worthy of better recognition than is accorded them. Violets are plentiful but rather behind the record as to quality and sell with exasperating slowness. American Beauty roses of splendid quality are in evidence and gardenias of unusual excellence of flower and stem are seen and the latter are sold while one is looking at them. Carnations improve slowly and are not abundant—fortunately for them. Orchids are on the increase, especially Cattleyas labiata and Percivalliana and Oncidium varicosum. Lily-of-the-valley is of fine quality and coming in plentifully. The stringency in lilies has ceased and values are not much more than half what they were two weeks ago.

PHILADELPHIA In spite of the big influx of dahlias, cosmos and other outdoor stock last week's business in this market proved above the average in most lines. A curious feature is the early appearance of chrysanthemums in quantity—notwithstanding the late season for all other stocks. The result has been rather disastrous on prices for that staple. Chrysanthemums seem to go by opposites. If it's a late season they are early and suffer. If it's an early season they come late and profit. The rose market was good in

the early part of the week but fell off. Beauties were the only really satisfactory stock all through. Poor reds and pinks were especially on the slump. Carnations were better as to size but until we get colder weather their keeping qualities will remain under par. Wild smilax is one of the most active subjects on account of the numerous store and wedding decorations. Gardenias are very scarce. Some good consignments of double violets are now coming in which prove more satisfactory than the poor keeping singles. Lily of the valley is good and in demand. Easter lilies slow. In greens smilax is going better than plumosa at present.

WASHINGTON A decided air of "hustle" in all of the florist stores demonstrates more plainly than words, that the "season" is about upon us. There is a very decided over-supply of dahlias and they are fine, but pretty much everything else in the flower line moves rapidly. In some portions of the District of Columbia there have been quite heavy frosts, which to a considerable extent have injured the more tender growth, but dahlias and cosmos for the most part remain unharmed. Some of the local growers are behind hand with their indoor planting and they are watching the weather very anxiously.

INCORPORATED.

Wm. B. Sands Co., Baltimore, Md., incorporated by W. B. Sands and four sons; capital \$5,000.

Cleary's Horticultural Co., New York, by A. T. Cleary, Haverstraw; C. E. Smith, Brooklyn; George Meehan, Jersey City; capital, \$10,000.

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 Finest American Beauties and
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FINE ROSES FANCY CARNATIONS
 A Full Line of All CUT FLOWERS
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 All Choice Cut Flowers in Season
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 NEW YORK
 Telephone 167
 Madison Sq.
 OPEN 6 A.M. DAILY
 We have a good regular outlet for seasonable flowers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Oct. 12 1907	First Half of Week beginning Oct. 1, 1907		Last Half of Week ending Oct. 12 1907	First Half of Week beginning Oct. 14 1907
Roses					
Am. Beauty, fan and sp.	20.00 to 25.00	20.00 to 25.00	Carnations, Fancy and Novelties. .	3.00 to 5.00	2.00 to 3.00
" extra	12.00 to 15.00	12.00 to 15.00	" Ordinary .....	.... to 2.00	.... to 2.00
" No. 1	5.00 to 10.00	5.00 to 10.00	Violets .....	.15 to .40	.15 to .60
" Lower grades	1.50 to 4.00	1.50 to 4.00	Cattleyas	40.00 to 60.00	40.00 to 60.00
Bride, 'Maid, Golden Gate, fan & sp	6.00 to 8.00	6.00 to 8.00	Lilies	8.00 to 12.00	6.00 to 8.00
" " lwr. grds.	1.50 to 3.00	1.50 to 3.00	Lily of the Valley	3.00 to 4.00	2.00 to 4.00
Liberty, Richmond, fancy & specal	12.00 to 15.00	8.00 to 15.00	Gladioli .....	.50 to 2.00	.50 to 2.00
" lower grades	1.50 to 8.00	1.50 to 8.00	Chrysanthemums, Fancy	25.00 to 50.00	25.00 to 50.00
Kaiserin, Carnot, fancy and spec.	8.00 to 10.00	6.00 to 10.00	" Ordinary	6.00 to 12.00	6.00 to 12.00
" lower grades	2.00 to 5.00	2.00 to 5.00	Adiantum .....	.50 to 1.00	.50 to 1.00
Killarney, Wellesley, fan. and spec.	8.00 to 10.00	6.00 to 10.00	Smilax	8.00 to 12.00	8.00 to 12.00
" lower grades	1.50 to 3.00	1.50 to 3.00	Asparagus Plumosus, strings...	20.00 to 30.00	20.00 to 30.00
			" " & Spren. (too bchs.)	10.00 to 25.00	10.00 to 25.00

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
 Commission Merchants in Cut Flowers
68 WEST 28TH STREET, NEW YORK
 Telephone 356 Madison Square

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Wholesale Florist
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 Furnish best stock at fair prices all the year round Send for quotations on fall orders
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HARDY FANCY CUT FERNS, Extra fine, \$1 per 1000
 BRONZE GALAX, \$1.25 per 1000. SPHAGNUM MOSS, Extra Large Bales, per bale, \$1.25
 Hammond's Old English Liquid Putty, \$1.25 per Cal. Hammond's Greenhouse White Paint, \$1.50 per Gal.
DISCOUNT ON LARGE LOTS
 Give us a trial order on ferns; we are sure we can please you. Headquarters for Florist Supplies and wire work.
 Write for price list on cut flowers and supplies.
MICHIGAN CUT FLOWER EXCHANGE, INC., Wholesale Commission Florists, 38-40 Broadway, Detroit, Mich.
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ROSES, CARNATIONS
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Wm. F. Kasting Co.
 Wholesale Commission Florist, also Dealer in
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383-87 ELLICOTT ST.
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 Give us a trial. We can please you.

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Cut Flowers on Commission
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 Telephone: 3860-3871 Madison Square

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 FRESH CUT FLOWERS, CUT EVERGREEN, AND FLORISTS' SUPPLIES.
 Fine Hardy Ferns..... \$1.25 per 1000
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WHOLESALE FLOWER MARKETS.						PER 100. TO DEALERS ONLY.					
CINCINNATI Sept. 30						DETROIT Oct. 8		BUFFALO Oct. 14		PITTSBURG Oct. 14	
ROSES											
Am. Beauty, Fan. and Sp.....	to 25.00	35.00	to 40.00	20.00	to 25.00	15.00	to 20.00	10.00	to 12.00		
“ Extra	15.00	to 20.00	25.00	to 30.00	15.00	to 20.00	10.00	to 12.00			
“ No. 1.....	10.00	to 12.50	8.00	to 20.00	8.00	to 10.00	6.00	to 8.00			
“ Lower grades.....	6.00	to 8.00	3.00	to 4.00	3.00	to 8.00	.....	to 4.00			
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	5.00	to 8.00	6.00	to 7.00	6.00	to 8.00			
“ No. 1 & l.w. gr.	3.00	to 4.00	3.00	to 5.00	2.00	to 4.00	2.00	to 4.00			
Liberty, Richmond, Fan. & Sp.....	6.00	to 8.00	5.00	to 8.00	6.00	to 8.00	6.00	to 8.00			
“ Lower grades.....	3.00	to 4.00	3.00	to 5.00	3.00	to 6.00	4.00	to 6.00			
Chatenay, Morgan, Fan. & Sp.....	.....	.....	.....	.....	.....	.....	.....	.....
“ Lower grades.....	.....	.....	.....	.....	.....	.....	.....	.....
Kaiserin, Carnot, Fan. & Sp.....	6.00	to 8.00	5.00	to 8.00	6.00	to 7.00	8.00	to 12.00			
“ Lower grades.....	3.00	to 4.00	3.00	to 5.00	3.00	to 6.00	4.00	to 6.00			
Killarney, Wellesley, Fan. & Sp.....	6.00	to 8.00	5.00	to 8.00	6.00	to 7.00	.....	to 6.00			
“ Lower grades.....	3.00	to 4.00	3.00	to 5.00	3.00	to 4.00	.....	to 4.00			
CARNATIONS											
Fancy and Novelties.....	to 2.00	1.50	to 2.00	1.50	to 3.00	2.00	to 3.00	.....	to 3.00		
Ordinary.....	to 1.00	1.00	to 1.00	.75	to 1.00	.....	to 1.50	.....	to 1.50		
MISCELLANEOUS											
Violets.....	to .40	to .60	.50	to .60	.50	to .60	.50	to .75			
Cattleyas.....	.....	33.00	to 50.00	50.00	to 60.00	50.00	to 60.00	.....	to 60.00		
Lilies.....	12.50	to 15.00	15.00	to 15.00	4.00	to 15.00	15.00	to 20.00			
Lily of the Valley.....	4.00	to 5.00	4.50	to 5.00	3.00	to 4.00	.....	to 4.00			
Asters.....	.50	to 2.00	.....	.....	.25	to 1.00	.....	to 2.00			
Gladioli.....	2.00	to 3.50	2.50	to 3.50	2.00	to 3.00	.....	.....	
Chrysanthemums, Fan. & Sp.....	12.00	to 25.00	12.00	to 25.00	25.00	to 35.00	12.00	to 15.00			
“ Ordinary.....	.....	.....	.....	.....	8.00	to 20.00	4.00	to 10.00			
Adiantum.....	1.00	to 2.00	1.00	to 2.00	.50	to 1.50	.....	to 1.50			
Smilax.....	15.00	to 15.00	15.00	to 15.00	.....	to 15.00	15.00	to 18.00			
Asparagus Plumosus, strings.....	40.00	to 40.00	40.00	to 75.00	40.00	to 50.00	50.00	to 50.00			
“ & Spreng. (100 bchs.).....	to 25.00	30.00	to 40.00	25.00	to 35.00	30.00	to 50.00			

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 Cut spikes in any quantity from
 Selected White and Light Shades;
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Adiantum Hybridum, 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

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Fall delivery. Our stock will please you. J. W. Dunford, Clayton, Mo.

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Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 per 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosus, 3 1/2-in. heavy, \$7 per 100. Sprenger, 3 1/2-in. heavy, \$6 per 100. Smilax, 2 1/2-in. \$2 per 100. Scranton Florist Supply Co., Scranton, Pa.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

Asparagus plumosus, 2 1/2 in., \$3.50 per 100; \$30 per 1,000; 3-in., 6c.; 3 1/2-in., 10c. 4-in., 12c.; 5-in., 20c.; 6-in., 30c. Comorensis, 2-in., 2c.; 2 1/2-in., 3c.; 3 1/2-in., 6c. Sprenger, 2 1/2-in., 3c.; 3 1/2-in., 8c.; 4-in., 10c. J. W. Dunford, Clayton, Mo.

AUCTION SALES

Sales of Decorative plants, Carnations, etc., every Tuesday and Friday. If you cannot attend send bids and shipping instructions. Catalogues on application. N. F. McCarthy & Co., 84 Hawley St., Boston.

AZALEAS

The best commercial varieties. J. W. Dunford, Clayton, Mo.

BAMBOO CANES

Stumpp & Walter Co., 50 Barclay St., New York.

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Yokohama Nursery Co., 31 Barclay Street, New York.

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BAY TREES.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEGONIAS

McRae-Jenkinson & Co., Cheswick, Pa.

BOILERS

BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths: Bermuda Easter Lilies. For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y. For page see List of Advertisers.

Rickards Bros., 37 East 19th St., New York. White Roman Hyacinths. For page see List of Advertisers.

H. F. Mitchell Co., Philadelphia. For page see List of Advertisers.

H. E. Flske Seed Co., Faneuil Hall Sq., Boston.

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James Vick's Sons, Rochester, N. Y. Fall Bulbs.

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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

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Aug. Rolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs. For page see List of Advertisers.

John Scheepers & Co., 4 and 6 Old Slip, New York.

Lily of the Valley Excellenta. For page see List of Advertisers.

Yokohama Nursery Co., 31 Barclay Street, New York.

Japan Lilium Longiflorum. For page see List of Advertisers.

H. H. Berger & Co., 70 Warren St., New York.

Roman Hyacinths and Dutch Bulbs.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

Dutch Bulbs, including Hyacinths, Crocus, Tulips, Daffodils, etc. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

CHRYSANTHEMUMS

Chrysanthemums, 1200 shapely pot grown 6-in. best varieties, 25 to 35c. each. J. W. Dunford, Clayton, Mo.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2 1/2 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

CHRYSANTHEMUMS.

Stock plants of early kinds now ready: MONROVIA, MONTMORT, ROSIERE, TOUSET, POLLY ROSE, PACIFIC, OPAH, BERGMANN, and all standard earlier \$4 per 100. Later kinds, Nov. 1. Stock plants of all of Hill's and Totty's novelties of this year, \$10 per 100. Send for catalogue of over one hundred kinds now ready. HARLOWARDEN GREENHOUSES, GREENPORT, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Oak Hill Nurseries, Roslindale, Mass. For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass. For page see List of Advertisers.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

Choice Evergreens, Blue Spruce, etc. Bobbink & Atkins, Nurserymen & Florists, Rutherford, N. J.

CUT FLOWER BOXES.

Edwards Folding Box Co., Philadelphia. For page see List of Advertisers.

Getmore Box Factory, Inc., Belleville, Ala. Light Wood Boxes.

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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 1741 N. 8th St., Philadelphia.

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DAHLIAS

David Herbert & Son, Atco, N. J. For page see List of Advertisers.

J. L. Moore, Northboro, Mass. For page see List of Advertisers.

Dahlias, just as dug from field; cactus, show, fancy and decorative, over 100 varieties. Write for prices. A. W. Gardiner, Lock Box 575, Springfield, Mass.

DAISIES

The Fernery, 1421 Charles St. N., Baltimore, Md.

New Double Daisy.

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DECORATIVE PLANTS

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Anton Schultheis, College Point, N. Y. For page see List of Advertisers.

J. Lambert, 150 Nassau St., New York. For page see List of Advertisers.

DRACAENAS

Dracaenas, Indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

FERNS

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H. H. Barrows & Son, Whitman, Mass. Nephrolepis Whitmani.

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Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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John Scott, Brooklyn, N. Y.

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W. P. Craig, 1305 Filbert St., Philadelphia. "Amerpohli."

Ferns, 4-in. Whitman, 30c. Barrowsii, 15c. C. E. Ervin, Latonia, Ky.

Bostons, 2 1/2-in., 4c.; 3-in., 8c.; 4-in., 15c.; 5-in., 25c.; 6-in., 40c.; 7-in., 65c.; 8-in., \$1 to \$1.50; 10-in., \$1.50 to \$2. J. W. Dunford, Clayton, Mo.

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Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
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Chas. H. Totty, Madison, N. J.
Field Grown Carnations.
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Chas. Evans, Watertown, Mass.

Pennock-Meehan Co., 1608-1620 Ludlow St.,
Philadelphia, Pa.

Carnations extra large and strong stock,
field-grown, Crocker, \$5.00. W. C. Pray,
Hinkora, N. J.

Carnations. 1500 Fair Maid, strong,
healthy plants, no stem-rot, \$4 per 100.
Maurice J. Brinton, Christiansa, Pa.

Carnations, Mrs. Joost and Ethel Crocker,
\$4 per 100; \$35 per 1000. Boston and Scottil
Ferns, 6-in., \$4 per doz. Mish's Lebanon
Greenhouses, Lebanon, Pa.

6,500 Enchantress, large, strong plants.
1,600 Bountiful; also Cardinal, B. Market,
Queen, Joost, Goddard, \$5.00 per 100, \$45
per 1,000. A. A. Gannett, Geneva, N. Y.

Bargains—Strong field-grown Carnations,
Louise, Harlowarden, Lord, \$3.50 per 100.
Larger quantity at your own price. Try a
few. Henry Schrade, Saratoga Springs,
N. Y.

Surplus Carnation plants: Enchantress,
Lawson, Queen, Fair Maid, Rose-Pink
Enchantress, Victory, etc. For informa-
tion write Peirce Bros., Waltham, Mass.

Carnations, field-grown, large plants, 1075
Q. Louise, \$5 per 100, \$48 the lot; 300 Har-
lowarden, \$5 per 100, \$13 the lot; second-
sized plants, 300 Harlowarden, 75 Prosper-
ity, 75 W. Lawson, 75 Patten, \$3.50 per
100, \$15 the lot. J. W. Dunford, Clayton,
Mo.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 223-228-1-2
Avenue, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.
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Rosal Mfg. Co., 26 Hawley St., Boston.
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Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St.,
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd.,
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P. J. Hauswirth, 232 Michigan Ave.,
Chicago.
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William J. Smyth, Michigan Ave and 31st
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston
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Jacob Schulz, 644 4th Ave., Louisville, Ky
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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Wm. L. Rock Flower Co., 1116 Walnut
St., Kansas City, Mo.
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Julius A. Zinn, 2 Beacon St., Boston.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Blümler Bros., Ft. Edward, N. Y.
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FORGET-ME-NOTS

Forget-me-nots, 100,000 Strong Stocky
Plants, apestis blue and white, Victoria,
Robusta grandiflora, Eliza Farnrobert, \$2.50
per 1000. Gustave Freytag, Hilltop Pl.,
W. Orange, N. J.

GALAX

Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.
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Finest green and bronze Galax in any
quantity at lowest figures. N. F. Mc-
Carthy, 84 Hawley St., Boston.

GERANIUMS

R. Vincent, Jr. & Sons, White Marsh, Md.
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Geraniums, Strong stock. 3-in., 4c., 3
1-2-in., 6c. Rooted cuttings, \$15 per 1000.
J. W. Dunford, Clayton, Mo.

GLADIOLI

Arthur Cowee, Meadowdale Farm, Berlin,
New York.
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J. L. Moore, Northboro, Mass.
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Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

Augusta gladioli, and white and light.
Rowehl & Granz, Hicksville, L. I., N. Y.

GLASS

Boston Plate & Window Glass Co., Boston
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Standard Plate Glass Co., 26-30 Sudbury
St., Boston.
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GLASS, High Grade, Double Thick Green-
house Glass. Lord & Burnham, 1133 Broad-
way, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

GRADING AND PLANTING

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GREENHOUSE BUILDING MATERIAL.

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Hitchings & Co., 1170 Broadway, N. Y.
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King Construction Co., N. Tonawanda, N. Y.
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D. Hiffe, 49 Washington St. N., Boston.
Piping and Construction.
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S. Jacobs & Sons, 1365-79 Flushing Ave.,
Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION
GREENHOUSE CONSTRUCTION, Semi-
Iron Greenhouses, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.

J. A. Payne, 260-274 Culver Ave., Jersey
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sey City, N. J.
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GREENHOUSE HOSE
Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS
GUTTERS, Cast Iron Gutters, L. & B.
Improved V Shaped Gutter with drip gut-
ter attachment. Lord & Burnham, 1133
Broadway, N. Y.

HAIL INSURANCE
Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND SUPPLIES
A full line of ferns, galax, and all wild
greens. N. F. McCarthy & Co., 84 Haw-
ley St., Boston.

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
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Michigan Cut Flower Exchange,
38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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In writing to Advertisers kindly mention Horticulture

HARDY HERBACEOUS PLANTS

M. H. Walsh, Woods Hole, Mass.
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Bay State Nurseries, N. Abington, Mass.
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Eastern Nurseries, M. M. Dawson, Mgr.,
Jamaica Plain, Mass.
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New England Nurseries, Inc., Bedford,
Mass.
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Hardy Perennials: extra large field-grown clumps, three dollars and four dollars per hundred. Delphinium, Coreopsis, Digitalis, Platycodon, blue and white, Anthemis, Hibiscus, Gaillardia, and many other standard species. Samples sent by express on receipt of stamps to cover cost and packing. James Krewson & Sons, Cheltenham, Montgomery County, Pennsylvania.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Johnston Heating Co., Lexington Ave. and
29th St., N. Y.
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HEMLOCK BRANCHES

Hemlock Branches for protecting Roses, Rhododendrons, Tender Evergreens, etc. Butts, pointed, 3 to 5 ft., \$4 per 100; 5 to 7 ft., \$5 per 100. Tied in bundles, f. o. b. Quincy or Brockton. Larger or smaller branches furnished. Special prices for large lots. Pine boughs in bundles or large quantities. Address, G. H. Higgins, 125 Atlantic St., Atlantic, Mass.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset,
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Lord & Burnham Co., 1133 Broadway, N. Y.
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INSECTICIDES.

Nicotinide kills all greenhouse pests.
P. R. Palethorpe Co.,
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Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil Insecticide.
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Carman's Anti-pest.
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IRISES

Henry A. Dreer, 714 Chestnut St.,
Philadelphia.

Japanese and German Iris.
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We have 100,000 Japan irises, the finest
collection in this country. Rowehl &
Granz, Hicksville, L. I., N. Y.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St.,
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Wm. L. Rock Flower Co., 1116 Walnut
St., Kansas City, Mo.

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Julius A. Zinn, 2 Beacon St., Boston.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LOBELIAS

LOBELIA KATHLEEN MALLARD.

New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 12 W. Broadway and 227
Greenwich St., New York.

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MOSCHOSMA

Moschosma riparium, a valuable new
Christmas flowering plant. Write for de-
scriptive circular and price list. Chas. H.
Totty, Madison, N. J.

MUSHROOM SPAWN

100 lbs. best English, \$6; 250 lbs. at 5½¢;
brick prepaid, 22¢. J. J. Styer, Concord-
ville, Pa.

NEW AND RARE PLANTS

Rose Hill Nurseries, New Rochelle, N. Y.
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NICO-FUME

Kentucky Tobacco Product Co., Louis-
ville, Ky.

NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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The Conard & Jones Co., West Grove, Pa.
Hardy Stock.

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Bay State Nurseries, N. Abington, Mass.
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Oak Hill Nurseries, Roslindale, Mass.
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Nursery Stock. N. F. McCarthy & Co.,
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Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.

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Ordonez Bros., Madison, N. J., Box 105.
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PALMS

A. Leuthy & Co., Roslindale, Mass.
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Kentia, Phoenix, etc., all sizes. Write for
new price list. Julius Roehrs Co., Ruther-
ford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange,
58 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

100,000 Pansy Plants assorted Var.
named, \$3 per 1000; Giant flowering mix.,
\$2.50 per 1000. Gustave Freytag, Hilltop
Pl., W. Orange, N. J.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat,
Leaf-Mould, Live Sphagnum moss, Baled
Sphagnum moss, Green Clump moss, etc.
Jobbers' list on application. C. W. Brown-
ell & Co., Walden, N. Y.

PEONIES

Wm. Elliott & Sons, 201 Fulton St., New
York.

Herbaceous Peonies.

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M. H. Walsh, Woods Hole, Mass.
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Peonies and Perennials; Peony, Phlox
and Evergreen Manuals, 25 cents each, in
stamps. C. S. Harrison's Select Nursery,
York, Nebr.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and
Wrought Pipe, Valves, Elbows, Pipe Hooks,
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

**PIPE COUPLINGS AND BOILER
TUBES**

Constantly on hand merchantable sound
second hand pipe with new threads and
couplings; also new galvanized pipe. 5000
feet 3-in. sound second hand boiler tubes
with 2 1/2-in. standard pipe threads and
couplings. 1000 feet 2 1/2-in. boiler tubes
with 2-in. standard pipe threads and cou-
plings very suitable for greenhouse heating.
10,000 feet 4-in. sound boiler tubes cleaned
with square cut ends in any length with
corking hubs if required. Pfaff & Ken-
dall, Foundry Street, Newark, N. J.

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PLANT STANDS

The Wittbold plant stand, \$18.00 per doz.
The Geo. Wittbold Co., 1657 Buckingham
Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PRIVET

Trained Privet: Pyramidal and standard
forms; three thousand shapely plants; five
to eight feet; excellent for screening and
ornamental purposes; at trifling cost as
with Bay Trees. Prices on application.
James Krewson & Sons, Cheltenham,
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RHODODENDRONS

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A. B. Davis & Son, Purcellville, Va.
Baby Rambler Roses.

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Low-budded roses, No. 1, \$95.00; No
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N. J.

SEEDS

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Grass Seed Specialists.

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIREA

Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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VENTILATING MACHINERY, New
Model encased, self-oiling gear; Standard
Model Open Gear. Lord & Burnham, 1183
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Dorsett Violets, \$2.25 per 100. Cash.
Wm. Schaffer & Son, Dover, Del.

Marie Louise violet plants in large field-
grown clumps, \$2.50 per 100, \$20 per 1000.
Elva R. Davis, Ionia, Mich.

5000 clumps California violets, ready now,
best stock in the west, 4 1-2 c. 250 or
more at 4c. J. W. Dunford, Clayton, Mo.

Violets—30,000 strong, healthy, field-
grown Campbell and California No. 1, at
\$2.50 per 100; \$20 per 1,000. No. 2, good
plants, at \$1.50 per 100; \$12 per 1,000.
Satisfaction guaranteed or money returned.
None better. The California, extra large
and fine clumps, packed to Carry Safely.
I have shipped over 10,000 already with
entire satisfaction. Chas. Black, Hights-
town, N. J.

WIRE STAKES

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Galvanized Wire Stakes.

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Wirework. Write for our catalogue.

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William E. Hellscher's Wire Works, 88 40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

SITUATIONS WANTED

WANTED position by young man growing roses or carnations, either private or commercial. 5 years' experience in latter. G, care Horticulture.

SITUATION WANTED by gardener with good record, private place preferred. Married, two children. Address N., care HORTICULTURE.

SITUATION WANTED in general greenhouse work; single, age 35, five years' experience, commercial. Address W. W., care Horticulture.

WANTED. Position as manager of plant and fern growing establishment. Experienced. L, care HORTICULTURE.

WANTED—Position in store, young man, five years' experience. Address R, care of Horticulture.

FOR SALE

FOR SALE—One top delivery wagon and one open delivery wagon, suitable for a florist's use; almost new and in good order; also a pair of good delivery horses; the above can be bought at your own price. Ed. Higons, 146 West 28th st., New York.

FOR SALE—Well established florist business with greenhouses in rear of store. E. C. Thinnies, 245 De Kalb Avenue, Brooklyn, N. Y.

TO BLOOM BOUGAINVILLEAS IN SUMMER.

I have a lot of large Bougainvilleas which I desire to use for outdoor decorations in summer, but invariably, with exception of a few stray flowers, they fail to bloom. My way of treating them has been to plant them out in the spring and they make a luxuriant growth. In the fall I cut them back and put them in a house kept at about 50 degrees. They start to grow towards spring and would bloom in the house, but as soon as I transfer them to the open the result is very few flowers. Should be pleased to hear from some one that had experience with said plants for early summer bloom. R.

We have flowered Bougainvilleas outdoors in early summer under the following conditions:

Having strong plants in six, seven and eight inch pots and plunging them outdoors in the month of May, leaving them out until October or until there was danger from frost, prune into shape not later than the middle of August, so that they might have time to make a growth before taking in; this growth would naturally be harder and better ripened than if the plants were planted out without pots. Keep them all winter in a night temperature of not exceeding 45 degrees, and pretty dry until middle of March when they may be watered more freely and gradually started into growth; they may be put outside as soon as danger from frost is over. The ripening by drought in a low temperature, seems to be essential to produce abundant bloom. ROBERT CRAIG.

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

BUFFALO, N. Y.—E. C. Brucker, 385-87 Elliott St.
CINCINNATI, OHIO—Frank W. Ball, 31 East 3d St.
DETROIT, MICH.—Frank Danzer, 1487 15th St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
MONTREAL, P. Q.—Gabriel Vrengde, 27 Ontario Ave.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
PITTSBURG, PA.—James Hutcheson, corner Dunmoyle and S. Negley Aves.
ST. PAUL and MINNEAPOLIS—John A. May, 163 Iglehart St., St. Paul Minn.
TOLEDO, OHIO—J. L. Schiller, 929 Prouty Ave.

USEFUL BOOKS.

The Horticulturist's Rule-Book. Bailey. Price, 75 cents.

Chrysanthemum Manual. Smith. Price, 40 cents.

The Chrysanthemum. Herrington. Price, 50 cents.

How to Make Money Growing Violets. Saltford. Price, 25 cents.

Dwarf Fruit Trees. Waugh. Price, 50 cents.

The American Carnation. C. W. Ward. Price, \$3.50.

We can supply any of the above at prices quoted. HORTICULTURE PUBLISHING CO.

?

Is Your Name In The Above List? If Not, Why Not?

THE ADVANTAGES OF BOILER INSURANCE.

The recent boiler explosion in the greenhouses of George M. Kellogg I am sure has set many of our florists to do some quiet thinking. If, as has been reported, the gauge was shut and the main valve closed, it comes under the head of criminal carelessness. I have always said it is the duty of the proprietor to learn something about this branch of the business, and see to it himself that everything is in working order when the firing season opens. It is a duty he owes to his employes and also to his own interests and those dependent upon him.

And I think the safest cause is inspection under a reliable insurance company, one that does that class of business and nothing else. The Hartford is the oldest, having all the up-to-date equipment necessary to insure good work at reasonable prices, and my boilers have been insured in that company for fourteen years. I have always found the inspectors men on whose judgment I could rely, and the officers of the company always ready to give any information within their power free of charge. Many florists have an aversion to this class of inspection because they claim that they would be subjected to unnecessary repairs. In answer to that I will say that during that time all the repairs I have had to make was the replacing of four tubes and the boilers "horizontal tubular" were second-hand to begin with. To those insured the inspectors will furnish plans for boiler settings, plans for chimneys and give their expert advice on all things pertaining to steam for power or heating. They have a record of almost every boiler that is built and can give you that information in a few minutes. This year, as an example, they inspected and gave me records of boilers that, had I gone and had them inspected by the state inspector, the bill would have been almost as much as what my 3-year policy on two boilers cost. I finally bought a boiler from a large heating concern. This boiler being out of the Boston district the home office in Hartford, Conn., was notified. They sent an inspector and at the same time one was dispatched from the Boston office. They examined the boiler and sent in a report which was satisfactory and the boiler was purchased. This is a case where we are getting something for nothing and protection as a valuable asset. Besides, I have in mind a boiler bought by a certain florist in which, after being set up, the tubes leaked so badly that they had to be taken out and new ones put in before a fire could be put under it.

Some people will rave about hydrostatic pressure. I say that class of pressure is all right when a boiler is leaving the shops new, but a thorough inspection is far better than all the pressure that can be put in it. There are many boilers pitted and scaled over; in such boilers the water pressure wouldn't show any defect. Take that same boiler, put it in a different locality, with a change of water, and

the scale will drop off, then your trouble will begin. Cracks in the sheets are also hidden things which a lay man knows nothing about and less where they are liable to be found. A boiler was offered me this summer, a good, clean looking boiler, shell, and all surfaces practically new; when the inspector examined it three cracks were found in the rear sheet. Had I bought this boiler, probably under low pressure those cracks might have rusted and closed up with the heat and some day something would have happened. There are conditions today in boiler rooms that make us shut our eyes and wonder why explosions don't happen. A gentleman last winter wrote me like this: "The state inspector will only trouble us every two or three years and it is cheaper than insurance." This from one of our leading Boston florists! I wonder if he would let his life insurance lapse with the idea of taking it up every two or three years. Those having policies with the above named company get four inspections of their boilers every year, one internal and three external or oftener if wanted.

A good way to apply hydrostatic pressure for those who wish to do so is to fill the boiler with water, set the safety valve to a point beyond the normal pressure and start a wood fire. The expansion of the water will do all that is necessary but, as I have said, this is only guess work and boiler inspection is the only real way and that with an insurance company who have everything to lose, and then should any accidents happen you will have the amount on the face of the policy to pay any damages that may have occurred to life or property.

The new express charges on flowers over the B. & A. R. R. to Boston are causing considerable kicking on the part of those who are called upon to pay the extra fee imposed but that is as yet all that it has amounted to. To my mind what the florists in Boston and vicinity want is a club patterned after the Market Gardeners' Club of Boston, composed of commercial men, with committees of good men who would take such matters up quickly. I have no axe to grind but I think the time has come when such a society for the benefit of the commercial men is sadly needed.

R. MCGORUM.

MAINE APPLE CROP DAMAGED.

Apple producers at Limerick, Me., estimate that \$10,000 damage was done by the wind and rain storm October 8 to farms within 10 miles of that place. A number of farms were ruined; the trees being stripped of apples and many of them uprooted. There was a veritable cloudburst, accompanied by wind of cyclonic force.

The reports regarding Maine's apple crop vary widely. Some say the crop will be up to the average or above, while others say it is so poor and measly that three or more worms have to crowd into one apple. It depends much upon whether the one who makes the talk is trying to buy or sell the apples. There is no doubt, however, that in some sections of the State this crop is very good, while in others it is much below the average.—Portland Press.

LIST OF PATENTS.

Issued October 1, 1907.

- 866,532 Reversible Disk Plow, Charles E. Dixon, Forest Grove, Ore.
- 866,657 Plow. William S. Jennings, Lyon, Mass.
- 866,679 Listing Plow. Gottfrid Persson, Elgin, Tex.
- 866,722 Weeder. Edgar A. Hess, Kendallville, Ind.
- 866,800 Cultivator. Wilkie D. Mullinax, Gore, Ga.
- 866,819 Harrow. Nivolas A. Seipel, Healedburg, Cal.
- 866,848 Apparatus for Cleaning and Separating Seeds and the Like. Frederick M. Dossor, Doncaster, England.
- 866,903 Cultivator Attachment. Willie C. Allbritton, Cairo, Ga.
- 866,917 Sickle Bar. Herschel Climer, Chillicothe, Ohio.
- 866,942 Seed Cleaning Mechanism. Robert A. Little, Buffalo, N. Y.; assignor of one-fifth to Elmer T. Anson and one-fifth to Charles L. Anson, Lockport, N. Y., and one-fifth to Emma Taft and one-fifth to Arthur F. Kraft, Buffalo, N. Y.
- 867,019 Fertilizer Distributer. Samuel K. Dennis and Frank W. Rice, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey.

Issued October 8, 1907.

- 867,601. Preparing stalks of grain for forming sheaves. Moses Rice, Philadelphia, Pa.
- 867,731. Harrow. Joseph H. Johnson, near Elmwood, Ill., assignor of one-half to Thomas L. Galpin, Galesburg, Ill.
- 867,865. Harrow attachment for cultivators. August A. Yackee, Roberts, Ill.
- 867,883. Plow. Edmond J. Ingram, Scott, Ark.

DUTY ON CHRISTMAS TREES.

From report of General Appraisers.

No. 16808.—Christmas Trees—Unenumerated Article.—Protests 247553, etc., of F. W. Myers & Co. against the assessment of duty by the collector of customs at the port of Plattsburg. Before Board 3, September 19, 1907. Opinion by Hay, G. A.

On authority of G. A. 4478 (T. D. 21372) Christmas trees were held to have been properly classified as unenumerated unmanufactured articles under section 6, tariff act of 1897, the Board overruling the importers' contention that the merchandise should have been classified under paragraph 700 as wood unmanufactured.

The New England Nurseries, Bedford, Mass., have taken advantage of the opportunity offered by the Food Fair in Boston, to bring their extensive stock into conspicuous notice. The large space secured is filled with attractive specimens of hardy ornamental trees and shrubs displayed invitingly, each one labelled with the botanical and the common name. This firm also furnished the decorations in this line for the Mechanics' Building in which the Fair is being held.

WILSON'S PLANT OIL

If you want to make money there is only one way. That is to have clean stock and the only way to get it is by using WILSON'S PLANT OIL.

New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
Yours very truly,
GEO. A. SKENE.

Florham Farms, Madison, N. J., December 8, 1906.
Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
Yours truly,
A. HERRINGTON.

PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

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TWEMLOW'S OLD ENGLISH GLAZING PUTTY

ONE OF THE MOST SERVICEABLE ARTICLES IN THE WORLD.

Liquid, in gallons to barrels of 50 gallons,

Is sold by many of the Florist Supply houses in the United States.

Hammond's Paint and Slug Shot Works, Fishkill-on-Hudson, N.Y.

Slug Shot Kills Sow Bugs. - - - Grape Dust Kills Mildew.

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Cotuit, Ma s.—Everett Hoxie, additions.

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Paducah, Ky.—Schmaus Bros., house 42x140.

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Los Angeles, Calif.—F. Haussmann, house 17x70.

Bar Harbor, Me.—John I. Kane, house 20x90.

Clarence, N. Y.—E. A. Muchow, three houses.

Richmond, Va.—Hollywood Cemetery Co., one house.

Tacoma, Wash.—Mrs. F. A. McLaughlin, house 20x65.

Falmouth, Me.—Lawrence Ramsdell, one house; Liscomb Estate, one house.

Chicago, Ill.—Oscar Metz, one house; Andrew McAdam, rebuilding; I. Stingle, one house; H. Schau, one house.

Alpena, Mich.—A. Linke, one house 18x70, one 16x49.



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thoroughly and economically during the coming Winter is the problem now engrossing the mind of the Florist who takes time by the forelock.

I am in a position to help you to the best solution of this problem, I have done it for others, I can do it for you.

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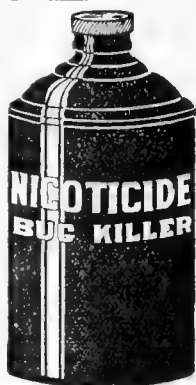
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1000 3 " " " 5.00	HAND MADE
800 3 1/2 " " " 5.80	48 9 in. pots in crate \$3.60
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144 6 " " " 3.16	24 12 " " " 4.80
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Best and safest manure for florists and greenhouse use, absolutely pure, no waste, no danger. Write for circulars and prices.

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Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down with. Circulars on application. \$1.50 per gallon. Also in quarts, half gallons and in bulk.

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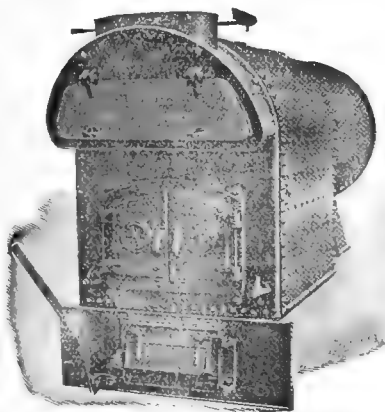
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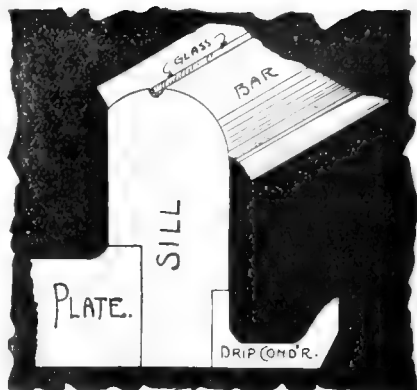
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HORTICULTURE

Vol VI.

OCTOBER 26, 1907

No. 17



AVENUE OF GINKGO BILOBA.

Photo. taken from the roof of Department of Agriculture Building, Washington, D. C. (U. S. Postoffice Building to right.)

*Devoted to the
FLORIST, PLANTSMAN,
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Manetti and Briar Stock for grafting, \$10.00 per 1000, \$80.00 per 10,000.

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2 1/4 in. Pots, \$10.00 per 100
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HARDY GARDEN ROSES

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Choice Ornamentals

20,000 Berberis Thunbergii, 18 to 24 inch.
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20,000 Vinca Minor (Grave Myrtle).
8,000 Red Oak Trees, 4 to 6 ft.
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40,000 Norway Spruce, White, Au trian and Scotch Pine, 1 yr transplants, 6 to 12 inch.
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1,000 Viburnum opulus 2 ft.
1,000 Viburnum dentatum, 2 ft.
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10,000 American Red Oak, 4 to 6, 6 to 8, and 8 to 10 in.
3,000 Swiss Stone Pine, 3 years. 3 to 4 in., stocky
1,000 Deutzia Lemoinei, 8 to 10 and 10 to 12 in.
Sample and price on application.

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Viburnum Plicatum

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1000 Althea Double White 8 feet...8c. each
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400 " Totus Albus 3 1/2 " 5c. "
400 " Blanche 5 " 6c. "
1500 Honeysuckle Chinese 3 year 6c. "
1500 " Halliana 3 " 6c. "
1000 " Golden 3 " 6c. "
800 " Chapmanii 3 yr. 4 ft. 6c. "
1000 (Each, Red, White and Pink Tartarian Honeysuckle) 4 feet 5c. "
1000 Forsythia Golden Bell 5 to 7 " 6c. "
2000 Deutzia Fortunei 6 " 10 " 8c. "
2500 " Crenata 8 " 12 " 10c. "
2000 " Pride of Rochester 7 " 9 " 9c. "
500 Weigela Candida 5 " 10 " 8c. "
500 " Variegated 3 " 5 " 8c. "
500 " Lavelle 6 " 8 " 8c. "
1000 American Ivy, good strong plants 6c. "
1000 Berberis Thunbergii 1 1/2 to 3 feet 5c. "
200 Deutzia Gracilis 1 to 2 feet 4c. each
200 " Lemoinei 2 " 3 " 6c. "
1000 Spiraea Van Houttei 4 " 5 " 6c. "
800 " Callosa Rubra 4 " 5 " 6c. "
1500 " Reevesii 5 " 7 " 6c. "
300 " Bumalda 2 " 3 " 5c. "
300 " Superba 2 " 3 " 5c. "
500 " Billardi 5 " 6 " 6c. "
200 " Aurea 5 " 7 " 6c. "
400 Silk Vine, good strong plants 6c. "
500 Clematis Stans 3 to 4 " 6c. "
1000 Mock Orange 4 " 6 " 7c. "
300 Jasminum Nudiflorum 3 " 6c. "
1000 Tamarix 4 " 6 " 6c. "
500 Snow Ball (Viburnum Opulus) 5 " 7 " 8c. "
1000 Elaeagnus Edulis Longipes 5 " 10c. "
500 Rose Pride of Washington 5 yr. 10c. "
5000 Viburnum plicatum 1 " 6c. "

Usual terms and time to those known to us. Packing at cost. This is a tempting offer and should not be neglected. Everything away below cost of production. Most of it less than half regular prices.

At these sacrifice figures the stock totals up to two thousand dollars. Would entertain a still further sacrifice on an offer for the whole lot. Make me an offer!

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Three Good Odontoglossums



Odontoglossum grande, Lindl. Guatemala

The commercial grower of orchids, who has facilities for handling odontoglossums would find *O. grande*, *O. Schlieperianum* and *O. Insleyei*, three useful and easily grown subjects. In some collections these species are represented by poor sickly, shrivelled plants, and they are usually considered hard to grow. They are, however, all very easy, providing a suitable compartment can be found for them while they are making their growth in summer. In nature they are found at high altitudes in woody moist situations in Central America where the rainy season is long and the percentage of atmospheric moisture high, relieved only by frequent cool winds. In a cool, moist greenhouse where the temperature can be kept down without excessive shade, these conditions can be fairly well maintained. These species do not suffer so much from the humid heat of summer as the Colombian species do.

A good circulation of air, which should not be allowed to become dry, is important. Stagnant corners, or positions where the circulation is not perfect, such as a shelf against a wall, should be avoided. The plants should be hung as near to the glass as possible. If the two extremes—stagnation and a dry atmosphere—are guarded against, the result should be satisfactory.

O. grande, often called the "baby orchid," is the best of the three; the flowers appear in late fall and are extremely handsome, measuring 5 to 6 inches across. The flowers on the accompanying photograph measure 6 1-2 inches in diameter. The color of the sepals and petals is rich yellow barred with reddish brown. The tips of the petals are pure yellow; the lip is cream blotched with brown.

O. Schlieperianum is very similar to *O. grande*; the flowers are smaller and appear in August and September. *O. Insleyi* also has smaller flowers which appear in winter; the flowers are similar to the two preceding species but instead of being barred are spotted and blotched with brown.

In each case the flower spike arises from the base of the newly formed pseudo-bulb and as soon as the growth is mature the plant should be kept fairly dry until new growth commences in spring when, after root action has fairly commenced, a liberal supply of weak stimulant may be given. The best rooting medium for this class of orchid and all which have a decided period

of rest is fern fibre without moss. Shallow pans are the most suitable receptacles.

James Hutchison

Ginkgo biloba

Believing that the readers of HORTICULTURE would be further interested in the valuable tree heading these notes I have secured photographs of at least two distinct forms of same. The one taken at Washington, D. C., was received through the courtesy of Mr. Peter Bisset, president of the Florists' Club of that city. It was taken from the roof of Department of Agriculture Building. (See frontispiece.)

It will readily be seen that while the growth of the trees has an upright tendency, they—none of them—could be classified as pyramidal in form, as is exemplified by the Lombardy poplar—*Populus pyramidalis*. This photograph bears out what was my belief respecting the distinctions between what is considered the type of the Ginkgo and those pyramidal forms as seen in those trees near to Horticultural Hall, Fairmount Park, Philadelphia.

In another photograph which was taken in Girard College grounds by my assistant, Mr. E. Thomas, two Ginkgos are seen; both may be considered the general type, yet both are quite distinct. It would be worth Mr. Chandler's while to stop off at the zoological gardens sometime and examine a Ginkgo growing just outside the grounds and not very far from the entrance and he will, I think, find unmistakable evidences that this particular tree was grafted—for the upper part is of the same pyramidal form as are those in Fairmount Park, but the lower limbs are decidedly sprawling, showing beyond the shadow of a doubt that these sprouts were allowed to grow below where the union of scion and stock had been effected.

The more I see of the Ginkgo the more am I impressed with the idea that it is not only one of the best street trees but it is the very best for that purpose. There are three Ginkgo trees in front of No. 1505 North Broad street, Philadelphia—which is near Jefferson street—and I do not hesitate to say that they present the most satisfactory appearance of any trees along that thoroughfare. These, while they have an upright growth and represent the type, are very different from the fastigate forms seen in Fairmount Park. I wish professional writers for the horticultural press would drop the Carolina poplar from their lists of street trees and recommend in its place the Ginkgo. The reason given for recommending the poplar is because it is quick growing. This in many instances is a decided disadvantage for, in order to keep it within reasonable bounds, after being planted a few years, it has to be pruned and that makes the tree expensive, for it costs at the lowest calculation 50 cents a year to keep it shapely, and another disadvantage is that as soon as it has finished putting forth its leaves in the springtime they commence to fall, whereas the Ginkgo retains its foliage until the first frost. Among quite a number of poplars there are in Girard College grounds and on the outside pavement three which put forth their leaves somewhat later in the spring than do the majority of our trees, nor do they lose their leaves so early in the summer, retaining them quite late. Is this a selection or what? They are distinct in other respects besides those mentioned but it would be difficult to

describe same here, besides our trees receive an annual pruning so that the two types are not growing naturally, which makes it a difficult matter to determine what are the differences besides those noted above. This type would be worth propagating in preference to the type of Carolina poplar generally planted.

Edwin Lonsdale

[According to Downing's Horticulturist there was in 1848 a specimen of *Salisburia adiantifolia* nearly 60 feet high in the Hamilton place, near Philadelphia.—Ed.]

The Ah-oon-ye-ye-pa

PROFESSOR HANSEN'S GREAT WORK WITH THE SAND CHERRY

The good Lord seems to have planned for the coming man ages before he came upon the scene of action. In almost all countries He planted fruits adapted to the climate and all these are subject to great improvement.

I was much interested in my visit to the Brandon Experiment Station in Manitoba. All the plums moved up from the South were failures. They were either too tender or they would not ripen. The Wolf, Forest Garder, and plums of that kind—hardy enough in Minnesota—were found to be worthless. What was to be done? People wanted plums. Well, out in the woods a kindly Providence had planted some wild ones, just as good in quality and adapted to the seasons. A large grove of them was growing under good cultivation. They were green when I was there, yet I noticed they were well laden. but the superintendent said, "This is the off year, you should have seen them last year." "Are they good for anything?" I asked. "Well," was the reply, "you should have been here last August when they were completely loaded. I could get along with my visitors till they came to this plum patch, then they got stuck and could not go on but must fill up with that delicious fruit. Good? Nothing can be better." Here you have it then. Away in the far North, fruits are waiting development. Even the strawberries and raspberries grow in profusion. What is needed is development and selection of the best.

There are two kinds of the Sand cherry, *Prunus pumila*, which grows on sandy and gravelly soils in Michigan, New Brunswick, and New Jersey. This type is not hardy in the North but out on the sand hill and on the adobe soil of the Dakotas, in places where you cannot cultivate, there you find another type of this family, called *Prunus Besseyi* from our own honored professor of botany.

Professor Hansen, with an old Indian guide, made an extensive trip in search of the best of the wild ones. On steep gumb. bluffs, in miserably poor soil they found quite a quantity. The Indians call it Ah-oon-ye-ye-pa. They gather them in large quantities with native choke cherries and pound them up, stones and all, mixing the mass with meat for soups. Having secured the very best types of wild ones, the Professor proceeds to grow them by the thousands and then select the best.

You see what an immense task he had before him. Native seed of the best must be gathered from different places. They generally fruit in three years, then the very choicest are selected, and the rest are destroyed by the thousand. The same method is carried on till now. He has the third generation and some of the fourth.

Now, this of itself is a great task, but it is not all. He is not content to secure the best Sand cherries that can be grown but he is using them for a base for further work—that of crossing with less hardy fruits—thus creating hybrids of excellent fruit with constitution borrowed from these hardy plants—robust enough to stand the rigors of the northern climate.

The Compass cherry is a cross between the Sand cherry and the Miner plum and at present it is having a great run in the North. In Nebraska it is worthless, but it is grown extensively in Minnesota and the Dakotas. The Professor has made a fine cross between the Chinese Simoni plum and the Besseyi. The fruit is of good size and the tree is hardy.

To me, engaged as I am in ornamental horticulture, his greatest triumph is in securing a cross between the Sand cherry and *Prunus Pissardi*—the blood-leaved plum so much used in landscape work. Here he has secured a beautiful cross. We saw over a dozen specimens. The foliage was deep purple, much brighter than that of the parent, and the cross seems perfectly hardy. What we need all through the West and Northwest is trees and shrubs of rich foliage. Rivers beech and the delicate Japan maples are utterly worthless. Here we have a most beautiful and hardy shrub which will just fit the spot and which will be worth thousands of dollars for our ornamental work. It can be successfully budded on the wild plum or on the Sand cherry and from a single bush thousands can be secured. We cannot emphasize this success too strongly. It seemed to me one of the horticultural triumphs of the century. The fruit of the Pissardi is not of much account but in all probability this hybrid will be an immense bearer, and of course, the fruit will be purple like that of the parent, giving us a shrub remarkable for utility and beauty. He is making several of these crosses and we hope he will keep at it along this line where he has won such signal success; for, among a numerous progeny he will be sure of the richest color and also a prolific bearer.

Another triumph is crossing the Japan Sultan plum with the Sand cherry. The fruit of this tree is deep purple all through. This was an off year for fruit. When I was there in August, however, he had a few of these crosses. They were of good size, the fruit deep purple all through, and, as I tested them they were of excellent flavor. These two successes are enough to immortalize a man, but these are only the beginnings. It is a pity that a man with such a record and with such a tremendous task before him should be hampered for a lack of funds. We need another Carnegie at his back or the same one who backed Burbank. He needs more money and more men. He should have a strong out-of-door force to keep the grounds in the finest cultivation. He needs experts in his greenhouse where the work of hybridizing is done. Much as Burbank has done for the Pacific Slope he has done nothing for the great Northwest if we except the Shasta daisy which in its latest form is a success. In California experiments can be carried on out-of-doors. In the bleak North all this work must be done in the greenhouse and in winter and it is a shame to the nation that a man of such skill and such keen intuition should be hampered. Back him up with plenty of money and he would raise miracles and transform all that bleak Northwest.

York, Neb.

C. S. Hammond

Centaurea imperialis



Centaurea imperialis is surely worthy of more attention than it receives. They are very suitable for greenhouse culture and give good returns for the time and space allotted to their care. Being the result of a cross between *C. moschata* and *C. Marguerita* they inherit the vigor of *moschata*; and the artistic shaped flowers resemble *Marguerita* but are twice as large. Their range of color is not extensive but includes pure white, rose, lilac and lavender; they are quite fragrant and have good lasting qualities when cut.

C. imperialis is undoubtedly the finest of all Sweet Sultans, is of easy culture and can be had in flower in 90 or 100 days from the time of sowing the seed. Sow the seeds about January 1st in flats, pot off into 2 inch pots when ready, and again into 3 or 3 1-2 in. pots in any good carnation or rose soil. Plant into benches or solid border when the pots are filled with roots, 12 by 15 inches or thereabouts.

Care must be taken in planting. It is well to ridge the soil and plant on the ridge or plant high and hill up. They are somewhat susceptible to a fungus disease or stem rot if water is allowed to lodge around the stems. It is also better not to syringe at any time. Keep the atmosphere moderately moist, plenty of air, 50 degrees at night with a corresponding rise during the day. It is well to guard against green fly.

British Horticulture

AMERICAN GOOSEBERRY MILDEW

Additional powers have been obtained by the Board of Agriculture to secure the suppression of American gooseberry mildew which is prevalent in some districts in Worcestershire and Norfolk. Under the new Act of Parliament local authorities have power to order the destruction of affected bushes and the spraying of the orchard. Some dissatisfaction has been expressed amongst the growers that although, in the case of an outbreak, they are required to destroy the bushes no provision has been made for paying compensation to the owners. A deputation of Evesham growers has lately waited upon the Worcestershire County Council, with a view to securing some redress. It was explained that a serious hardship would befall growers who were compelled to grub up gooseberry plantations in full bearing, without any compensation. The growers contend that if private property is destroyed for a public object in the interest of the community, then the nation ought to pay compensation. It was also urged that burning would not eradicate the disease, but that it could be effectively kept in check, if not stamped out by pruning and spraying. Growers are not satisfied that the disease will do all the injury in the districts that it had done in other countries. The dangers of the disease, it is contended, have been greatly exaggerated. It has been known in this country, it is stated, for many years, and only appeared to attract serious attention in exceptional seasons. A strong case has been made out for granting compensation, and there is a precedent to go upon. The farmer when compelled to compulsorily slaughter his cattle to prevent the spread of disease receives compensation from the Government, and it is only reasonable to expect that the same treatment should be meted to the fruit grower.

NEW CHRYSANTHEMUMS

First-class certificates were lately granted by the National Chrysanthemum Society to the following new varieties, grown by Messrs. W. Wells & Co. of Merstham (Surrey): *J. J. Hart*, an early-flowering decorative variety; blooms bright yellow with pale reverse; *Cornichts*, a yellow early flowering border variety; *Wells' Scarlet*, a decorative variety of a shade of bright chestnut with crimson shading and bronze reverse. The National Society are holding their annual market show at Covent Garden early in December. This display has become a popular feature amongst commercial growers. Prizes are offered for collections of market chrysanthemums, a group to fill a half circle, 9 ft. by 6 ft., the best novelty in market chrysanthemums not in commerce, the best packed boxes of market bloom, and for a memorial design. As a new departure winter-flowering carnations are to be introduced. There are several market growers who distinguish themselves with this increasingly popular flower and there should be an interesting contest. The carnations will also lend an acceptable variety to the display. Several of the leading growers will be represented, and another successful exhibition is anticipated.

George Moorson

W. H. Adsett.

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The Botanic Garden trees get a reprieve

We learn that an order has been telegraphed to Acting Secretary of War Oliver and by him transmitted to Gen. Dodge, president of the Grant Statue Committee, directing that action in the matter of cutting

down historic trees in the Botanic Garden at Washington be suspended until President Roosevelt returns to that city. Thus the emergency is past for the time being and we may hope that deliberation and a careful consideration of the problem may result in some acceptable plan for the location of the Grant statue being evolved whereby these valuable and interesting trees may be spared.

The New England apple crop

The surprise of the year in eastern Massachusetts is the enormous apple crop, unprecedented in quantity for an "off year" and unequalled in quality in any kind of a year heretofore. This is directly attributed to the thorough spraying which the trees received last spring for the extermination of the gypsy moth, which also made short work of the codling moth and other pests of the apple growers. This rather unforeseen outcome of the moth campaign will, no doubt, go far to soothe the feelings of the farmers who have been considerably disturbed over the heavy expense of compulsory spraying against the common pest. Apples at \$4.00 a barrel are a very pleasant crop to contemplate and should this circumstance have a deterrent influence on the wholesale cutting down of apple trees which has been going on of late this will be another gain. The only disadvantage apparent this year has been the breaking down of overloaded limbs which suggests the possibility that, if thorough spraying is to become a regular annual operation in apple growing, thinning will also have to be done, as advised by Mr. Wheeler in his admirable lecture on fruit growing before the Gardeners' and Florists' Club of Boston.

To start the money a-moving

Money scarce and collections slow is the general report from the flower trade and those industries which are to any extent dependent upon the florist for business. The average florist must collect before he can pay for there are but few so well supplied with cash that they can pay as they go regardless of whether they collect their own accounts. The banks are wary and borrowing at present is not so simple an operation as in times gone by. The money that circulates through the florist trade takes its start from the retail customer. Through the retail florists' hands it goes, then the wholesaler and the supply man, then the grower, after which the builder, the coal man, the bulb dealer, incidentally the help all along the line and lastly the publisher and advertising man get a chance to finger it for a few moments. The moral is obvious: the retail florist is the man we are all waiting for. It is notorious that, as a class, he is and always has been over-liberal in extending credit to people much better supplied with the "wherewithal" than he himself is ever likely to be. All efforts at reform in the credit habits of the trade must take these facts into consideration. By what means can better methods of collecting and the requisite courage to face the delinquent swell customer with a bill be disciplined into the man behind the flower counter?

CHRYSANTHEMUMS.

A French Audit.

There is always considerable interest in discovering the favorite varieties, and in England audits of the best varieties compiled from returns sent in by a certain number of growers have long been in vogue. In France this has been done more rarely and at longer intervals, but still it is done there, one of the largest having been inaugurated by the "Moniteur d'Horticulture" some years ago. Of course tastes differ and English growers do not always accept the results of these French audits.

At any rate there is some little interest attached to them, and apart from purely patriotic motives, which in some individual cases largely influence some of our growers, it is interesting and instructive to know what our neighbors are doing and think. By this means we may enlarge our view and perhaps become acquainted with the merits of certain flowers we have never before heard of, for it is certain that every one of the new French seedlings does not invariably find its way across the Channel.

The Paris Chrysanthemum Committee of the National Horticultural Society has recently published a little brochure of 100 pages containing a complete record of its last year's work and operations. This committee would in England be considered a respectable society in itself, for at the beginning of the year it consisted of 391 members, of whom 349 are called active members and 42 are designated associates.

The contents briefly may be summarized as follows: Schedule of classes for the ensuing exhibition to be held in Paris, November 8 to 17, 1907, comprising nine different sections divided into 101 classes; annual report; annual revised group of varieties for different purposes; list of best varieties put into commerce since 1903; list of prize winners at the 1906 show; reports of various shows held in France last season; reports of visits to the collections of several prominent cultivators; list of members, etc.

Our present object, however, is to draw attention to the list of varieties since 1903 which are considered the best. Returns were invited from members of the committee and then tabulated, with the result that upwards of 200 were chosen. These varieties received from 3 to 30 votes each, and it has occurred to me that the names of the first 50 may be of interest to readers of HORTICULTURE at this season.

The following is the list, viz.:

Variety	Raiser & Date	No. of Votes
Sapho	Calvat, 1904	30
Mme. Marguerite de Mons	" " "	29
Mme. Rene Oberthur	" " "	29
Lt. Col. Ducroiset	" " "	29
Prest. Viger	" " "	28
Tokio	Vilmorin, 1904	28
Jean Calvat	Calvat, 1903	28
Souvenir de Bailleul	De Pins, 1905	27
Ch. Schwartz	Nonin, 1903	26
Mme. Henri Deuillet	Calvat, " "	24
M. Ant. Marmontel	Nonin, 1904	24
La Graciense	" " "	24
Prest. Loubet	Calvat, 1906	23
Le Brevannais	Durand, 1905	23
Alliance	Calvat, 1904	23
Souvenir de Mme. Buron	Plet, 1904	22
Nathalie Bourseul	Nonin, 1903	21

Variety

Raiser & Date of Votes.

Ami A. Nonin	Clement, 1905	21
Albert Maumene	Nonin, 1904	21
Rose Poitevine	Bruant, 1903	21
M. Loiseau Rousseau	Calvat, 1906	21
Henri Second	" " "	20
Souvenir de Calvat pere	Calvat, 1903	20
Mme. Toussaint Charvet	Nonin, 1905	20
Vierge Montbrunoise	De Pins, 1904	20
Amateur Rozieres	Nonin, 1905	20
Mme. de la Verteville	De Pins, 1904	20
Mlle. Renee Avisard	Leroux, 1903	18
Ville de Phenicie	Chantrier, " "	18
Mrs. J. A. Miller	Wells, 1904	18
Mme. Henri Deliry	Nonin, " "	18
Wm. Duckham	Wells, " "	18
Amateur Conseil	Calvat, " "	18
Miss Mildred Ware	Jones, 1905	17
Mlle. Marie Pouzaz	Chantrier, 1904	17
Soeur de Charite	Vilmorin, 1903	17
Mme. W. Bowen	" " "	17
Chateau des Radrets	De Reydellet, 1905	16
Dubruissou-Foubert	Calvat, 1906	15
Mlle. Anna Debono	" " "	15
J. H. Silsbury	Wells, " "	15
Souvenir de Cologne	De Pins, 1905	15
Hy. Perkins	Jones, 1903	15
Mlle. Berthe Eschnebauer	Calvat, 1905	15
Mary Ann Pockett	Wells, " "	15
Mme. Martinotto	Calvat, 1905	14
Ile de France	Nonin, 1904	14
Femina	Calvat, " "	14
Secreteire Clement	" " "	14
E. J. Brooks	Wells, " "	14

Calvat's Seedlings.

This great French grower's annual list for 1907 has just come under my notice again, and I am reminded of his exhibits at the French shows last year. American chrysanthemum growers will do well to keep a look-out for the following novelties of this raiser: Algesiras, Touring Club, Santos-Dumont, Paul Randet, President Dubost, President Fallieres, Mlle. Jeanne de la Croull, Le Lutin, S. A. Naceur Bey, Carlo Krocht. If the American climate suits them there ought to be some fine samples of them this autumn. C. HARMAN PAYNE.

FORESTRY STUDY AT HARVARD.

Through the generosity of James W. Brooks, John S. Ames and others, Harvard College has come into possession of 2000 acres of land in Petersham, Mass., on which is growing the best body of timber now to be found on an equal area in the state. It will be devoted to the use of the division of forestry of the college. Students will be in residence at Petersham during a considerable part of the year. There they will take up in the first of their regular two years' course, and largely in the field, all their elementary work including tree botany, the theory and practice of forest measurement, and the whole subject of silviculture. This will lead them directly to their last year's work, which is mainly devoted to lumbering, forest engineering and the study of forest production as applied to actual problems. The diseases of trees and other forms of injury, and the history of forest policy in the various countries will also form part of the work.

TREE AND SHRUB CHAT.

Juniperus stricta, said to be a form of *Virginiana*, the red cedar, is a neat little fastigate evergreen useful for gardens or veranda boxes and perfectly hardy around Boston.

The nursery trade throughout the New England section of the country is generally reported as lagging and not equal in volume to that of one year ago. The people who are the best buyers of ornamental stock are feeling the effect of the depressed market and financial stringency and it is only natural that garden operations should be among the first to suffer.

Acer Ginnala, classed by some as a variety of *A. Tartaricum* as seen at a distance at the present time can scarcely be distinguished from a clump of scarlet salvia in full bloom, so brilliant is the autumn foliage. Among the other brilliant objects in fall coloring are *Euonymus alatus* and the *berberis Thunbergii* and *Sieboldii*. *B. Thunbergii* is loaded down with its racemes of coral fruit this year.

Commissioner Samuel Parsons has presented a report on the condition and needs of Central Park, New York, and the total cost of the repairs and improvements which he regards as necessary amounts to \$2,676,750. This proposition, he says, must ultimately be faced if Central Park is to remain the pride of the city and the leading park of the country. The estimate includes \$650,200 for loam, \$150,000 for manure, \$50,000 for sod, \$75,000 for shrubbery and trees, and \$60,000 for four years' work of forty men and foremen. Immense sums are also required for roads, lakes, drainage, etc.

The fall planting of nursery stock in Detroit has been started with great vigor and all agents report a goodly number of orders on hand. A nice feature is the policy of some churches to improve their yet vacant lots by planting shrubs and herbaceous plants thereon, and so forming little parks. On looking about one cannot but wish that nurserymen be more careful in selecting their salesmen. The people are ignorant enough about these goods, but they are excusable. For a nursery to send out men on planting work who have not the slightest idea of effective planting is not only inexcusable but suicidal to the business. The reaction hurts not only the nurseryman but also the florist. F. DANZER.

PERSONAL.

John J. Gormley has returned from Minneapolis to his old place with Canner & Gormley, Chicago.

Supt. Jas. W. Boone of Clifton Park, Baltimore, met with a painful accident recently which will confine him to the house for a time.

George Reinberg and Miss Clara Lackey of Chicago were married on the evening of October 16 and started for Colorado on their wedding trip.

A. J. Seiders has accepted a position in the College of Industrial Arts, Denton, Texas, as director of gardening, floriculture, cut flower work, designing. Mr. Seiders' years of practical experience eminently qualified him for this position. The salary is \$1,800 and residence.

THE CULTIVATION OF FRUIT.

A paper read before the Gardeners' and Florists' Club of Boston, by
Wilfrid Wheeler.

In presenting a subject of this kind, which had to be covered by a short paper, I shall have to confine myself to generalities rather than give any extended and complete cultural directions, but I hope that these will lead to a discussion of the subject which will bring out all the important features that the gardener and florist are interested in.

The growing of fruit comes to many of you not as a vocation, but rather as an avocation, or perhaps a side issue to your other work, and to some of you not at all. This important branch of horticulture has received far too little attention from the craft in general; not that the craft is entirely to blame for this, but that conditions have governed the gardener over which he has had little or no control. Now, however, a real awakening in fruit culture is at hand, and the gardener and florist who would be abreast of the times, must be alive to meet this new demand.

The Enthusiasm of Fifty Years Ago.

Not more than fifty years ago, Boston and its immediate vicinity was the scene of a great activity in all kinds of garden fruit culture. Think of Marshall P. Wilder's garden of that time, with over one hundred and fifty varieties of pears, and some of the other gardens of the same period, and find a parallel to them now. No garden then was considered complete without its rows of fruit trees and bushes, as well as its collection of vines and plants. These conditions have gradually changed until we find beautiful beds of flowers and wonderful landscape effects where once the utility garden grew. We have passed from the useful to the beautiful, and have not yet learned to combine the two, and yet, there is probably no garden in the vicinity of Boston but can grow some or all species of native fruits. It is true that certain locations favor certain species, but this is largely due to soil and light conditions, both of which can be changed by artificial means. The gardens of the old world have much to teach us. Not one of them would be considered worthy of the name, unless it had a portion given over to fruit, which portion is made as attractive and beautiful as any other part of the grounds. In some cases the fruit trees and vines are used with ornamentals combining the useful and the beautiful in many graceful forms, and giving an effect most pleasing and satisfying. In this country, we consider that we have a fruit garden if there are a few uncared-for fruit trees and bushes which, by the way, are expected to last a lifetime, as well as produce a good crop of fruit each year. I know there are exceptions to this rule, but they are few and far between.

This subject of fruit growing should interest the gardener and florist more from a point of quality than quantity, for seldom does either of this class of men care to grow fruit for sale, so a wider field is open to them than to the commercial grower, who must be guided in his choice of varieties by their productive quality, while many kinds of fruit are less prolific, yet

yield a very superior quality to the careful gardener.

How to Plan for a Fruit Garden.

In planning for a new fruit garden or remodeling an old one, three general considerations should be kept in mind: 1st, situation; 2d, soil and moisture conditions; 3d, selection of varieties. Choose a site with plenty of sunlight and air. Wherever necessary, plant large growing trees on the north side of the garden, so that the shade from them will not interfere with other growing trees and plants.

1st. Set all vines on the south side of your chosen site, using bush fruits and dwarf trees as intermediate fillers, and where the skill of the gardener will show itself more than in any other part of this work, is in placing these trees and bushes so that they will occupy the least space and give the best results. Where space is very limited, plant currant and gooseberry bushes under the larger fruit trees, particularly under pear trees, as these grow straighter and cast less shadow than apple. Hedges of raspberries and blackberries can be made about a garden and walks and drives set off from the rest of the grounds by the use of dwarf apple, pear or cherry trees, which can be trained on a trellis as grapes are grown, and will give the greatest returns for little trouble and less space.

Usefulness of the Dwarf Tree.

While speaking of dwarf trees, a further word about them may not be amiss. The dwarf tree fills a long felt want in the private and home garden, and its usefulness cannot be overestimated for people who wish to have good fruit quickly and on limited space; then too, it lends itself readily to any form of pruning or training, and its adaptability is of the greatest service in producing artistic and picturesque effects, and these are advantages not to be lost sight of when one has a fruit garden to plan for. If you want a hedge both useful and ornamental, plant dwarf apple trees and train them in a bush form, keeping the centre open as much as possible, to admit air and sunlight. If you need a screen to divide one part of the garden from another, plant dwarf apples or pears, training them to the desired height on wire trellises. If you wish to cover some stone or brick wall, plant dwarf cherries, plums or pears and train them in espalier form; in fact, any available space in the fruit garden can be utilized to advantage by some forms of dwarf fruit trees.

Repairing the Soil.

2d. The preparation of the soil for the fruit garden must be thorough and complete. No one would think of planting a flower garden in unprepared soil, and fruit needs good, careful preparing even more than flowers. All the soil should be trenched at least three feet deep, with plenty of well rotted manure and coarse ground bone worked into it. If the soil is of a sandy texture, add some heavy mud or peat; if it is too clayey or heavy, use sand and finely sifted coal ashes, enough to cut the heavier particles of soil and make it more porous and friable. Drainage should be supplied in all heavy soils, and some form of tile or stone drains will be found best. Nothing is more harmful to the

roots of growing trees than too much water about them. All fruit trees want water to keep them healthy, but it is better they should have too little than too much. This does not apply to fruit plants like the strawberry. Heavy soils are best for pears, strawberries and bush fruits, while sandy or rocky soil is best adapted for grapes; and the apple delights and flourishes in a well drained, warm soil, with plenty of moisture, land such as is more often found on hill-sides.

Selection of Varieties.

Now for our third division—varieties to plant. Many of you are at a loss to know the best varieties of fruit to plant, as a number of the so termed "best" are known so only in a commercial way, and when the gardener who is growing for quality, plants these, he is much disappointed and, after waiting a number of years for the result of his care, is discouraged at the fruit produced. The following is a list of some of the varieties of fruit suitable for garden culture in our climate and adaptable to a variety of soils:

Dessert apples. Early: Williams, Red Astrachan, Sweet Bough, Early Harvest.

Fall apples: Porter, Gravenstein, McIntosh, Wealthy, Golden Sweet, Late Strawberry, Sops of Wine.

Winter: R. I. Greening, Baldwin, Northern Spy, Lady Sweet, Grimes Golden, Newtown Spitzenburgh, Stayman, Swaar, Tolman Sweet, Yellow Belleflower, Winter Banana, Westfield, Red Canada, Roxbury Russet.

For culinary purposes. Early: Duchess of Oldenburgh.

Fall: Fallawater, Pumpkin Russet, Pound Sweet, Ribston Pippin, Twenty Ounce, and many of the French and English varieties, especially when grown as dwarfs.

Winter: Northern Spy, Baldwin, Rhode Island Greening, Jacobs Sweet, York Imperial, Green Sweet, and for very late season use Ben Davis or Gano. Here again many of the foreign varieties may be planted.

Pears. For summer use: Doyenne, Clapps Favorite, Giffard, Wilder, Dearlyn's Seedling, Fall Bartlett, Paradise, Bose, Marie Louise, Louise Bonne of Jersey, Worden Seckel, Belle Lucrative, Seckel, Vermont Beauty, White Doyenne and Sheldon.

Winter: Barry, Anjou, Langlier, Winter Nelis, Dana's Hovey, Clairgeau.

Plums: Wild Goose, Bradshaw, Damson, Lombard, Jefferson. While there are hundreds of varieties from all quarters of the globe, it will be found that a few kinds to plant are better than a great many, and the choice would be from the Japanese group: Abundance, Burbank, Red June, Chabat, Satsuma and Wickson.

Peaches. Of these, the following will cover a long season: Champion, Carmen, Greensboro, Fox Seedling, Early and Late Crawford, Foster and Old Mixon.

Grapes. Moore's Early, Campbell's Early, Worden, Concord, McPike and Cottage, for black. Niagara, Moore's Diamond, Victoria and Prentiss, for white. Delaware, Vergennes, Salem, Brighton and Woodruff Red, for red.

Cherries: Black Tartarian, Coe's

Transparent, Gov. Wood and Yellow Spanish, for eating; for cooking, Montmorency and Early Richmond.

Currants: Fay's, Wilder and Red Cross, for red. White Grape or White Imperial, for white. Black Naples and Champion, for black.

Gooseberries. Red: Industry and Red Jacket. White: Chataqua, Columbus and Triumph, while Downing fills the bill for a small white, and is good for cooking, and when thoroughly ripe is of excellent quality for eating.

Raspberries: Cuthbert for red. Golden Queen for white, and Kansas for black, while Herbert might be mentioned as a close rival of the Cuthbert.

Blackberries: Agawam, Dorchester and Ward.

Strawberries: Marshall, Brandywine, Sample, Parson's Beauty, Cardinal, Granville, Sen. Dunlap; among the newer ones, Chesapeake, Abington, E. H. Eckey, New Home and Golden Gate.

Directions for Planting.

I will not attempt to infringe on your good nature by giving planting and cultural directions for the list that I have just read you, but will say in passing, that you should use the same care in planting fruit trees, plants and bushes that you give to your best ornamental planting, always keeping in mind that a tree well set is half grown, and also that many of our fruit trees have very poor roots to start with, and need even more care at this critical time than many of the ornamentals. Spring setting should be preferred to fall in most cases; one exception to this is the strawberry, which, for garden culture, should be set in August or September.

Cultivation.

All hard wooded fruit plants should have thorough cultivation for at least three months in the year, May, June and July, after which cultivation should be discontinued, in order that the new wood should have time to ripen before cold weather, and where trees and bushes are planted in a space by themselves, the ground should be sowed with a crop of vetch, winter rye or wheat, late in July or early August. This serves to keep the weeds down and protects the ground from freezing and thawing during the winter, whereby many of the small feeding roots are broken. If the ground must be cultivated until late, a mulch of some kind should be put about the roots for winter protection, but not next to the bark of the trees or bushes, as mice are apt to live in this litter and girdle the stems during the winter. This mulch must be applied after the ground is frozen. With the strawberry, cultivation can be kept up through September and possibly a part of October, according to the weather. Before the winter mulch is applied to the strawberry bed, see that there are no low places where water will stand over the plants, and it is always best, if your bed is on flat land, to dig a few holes in the ground at least three feet deep, filling them with leaves. These act as drains for all surface water which would otherwise be kept on top of the plants by the frozen ground. The mulch over the strawberry bed should be

very light, bearing in mind that you do not want to keep the cold out, but the frost in, when once the ground is frozen.

Spraying.

When your orchard and garden are once started and growing, the spraying and pruning of your trees and thinning of your fruit, will largely determine your success or failure in producing good specimens. In these days of insect pests and blights, spraying is as important to the growing of good clean fruit, as the disinfecting of a room after a case of small-pox or scarlet fever, to the preservation of the public health. Spraying should be done at least three times in the year,—November for scale, with Scalecide or lime, sulphur and salt; May, with bordeaux and arsenate of lead in combination, for blight and insects; and late July, for late fruits, with bordeaux, alone. Another spraying can be given in March or April, with benefit.

Pruning.

The subject of pruning alone, could occupy at least one evening's discussion, and then we would only get at some rudimentary principles, but these will be enough for the practical gardener to enlarge upon. There is a difference between pruning and cutting off limbs. Pruning generally helps trees, but cutting as it is done by the average attendant, is no better than butchery. First, in pruning, bear in mind that sunlight and air are as essential to fruit as to flowers; therefore, keep your trees and bushes open to both of these life-giving, indispensable elements, removing all surplus branches, dead wood and suckers, and pinching back soft growths. In bush fruits, such as currants and gooseberries, remove all four-year wood and keep at least two new canes coming on all the time. In raspberries and blackberries, the fruiting wood should be cut off and burned as soon as the crop is gathered. On all standard trees, keep the tops well cut back; in other words, keep the trees low-headed, so it will be easy to work them. In low-headed trees, the work can be reduced at least 50 per cent. All spraying can be done from the ground, while pruning and thinning can be accomplished with a short step-ladder.

One important point to be remembered while pruning, is that you can carry harmful bacteria on your pruning tools from one tree to another. Pear blight, Peach yellows and various other forms of plant disease are carried in this way, so treat all wounds made by pruning with coal tar or creosote, and dip your tools in a solution of corrosive sublimate before going to a new tree. You would never hear of a good surgeon using the same instruments twice, without disinfecting them first, and the gardener must take equal precautions, if he would keep disease from spreading in his orchard. Flies and other insects carry disease from wounds that are not carefully treated, especially if pruning is done too late in the spring.

Thinning the Fruit.

Probably the most important point to the gardener who has a type of excellence always before him, is the

thinning of the fruit, and indeed here lies in a large measure the final and crowning result of his labor; for, to place before his employer or upon his own table specimens which are perfect in form, smooth of skin, large in size and, most important of all, delicious in flavor, is largely due to judicious thinning. A general rule as to thinning, to be followed in all fruit culture is, remove at least one-half of the specimens set, and the time and method of so doing will depend much on your own good judgment. Apples and pears should be thinned when about the size of an English walnut; plums, peaches, apricots and all stone fruits, when about as large as the end of your little finger; currants and gooseberries, as soon after they have formed as possible. Few people realize the value of thinning these bush fruits. You well know what quantities of fruit both these species will set. You have seen currants so thick and so small that there seems to be nothing but currants, no leaves or stem are visible; the strength of the bush has gone towards producing immense quantities of these small, poor specimens. This condition of affairs can be changed through judicious thinning of the heavily laden bushes. Remove at least two-thirds of the fruit, and you will still have plenty of currants left and of a far superior quality. The same rule follows with gooseberries. With grapes, never let more than three bunches grow on one spur, and two are much better than three, and for very fine fruit production, one bunch to a short spur, allowing perhaps a few more spurs to the vine. Strawberries show marked improvement when thinned; cane fruits are the only exception that I know to the rule of improvement by thinning.

Give the Gooseberry a Chance.

Just one word before closing about one fruit which we seldom find in our gardens to-day, or if it is there it is in the most neglected part, overgrown with weeds, perhaps, or covered by a tangled growth of vine and bushes, yet struggling to live, and producing some fruit in spite of neglect. Once in a while it is turned to by somebody, who says "O, it is only a gooseberry." Give this gooseberry half a chance, though, and it will produce fruit which is delicious, both raw and cooked. We are only beginning to realize its value, and in some places are now giving it the position it deserves. Our friends from across the water are not unappreciative of its merits, but they have not interested others who have had less experience with it, in its cultivation. But it is not too late now, so let us plant the gooseberry and enjoy this most palatable and unusually attractive fruit.

I shall feel that my efforts have not been in vain to-night, if you will take away this thought that spraying, pruning and thinning of your fruit are as important to the growing of good specimens, as are watering, disbudding and training of your plants and flowers to the producing of good blooms, and the man who practices these rules will not only derive much pleasure, but he will have the satisfaction of knowing that he is benefiting mankind in producing a fruit beautiful to look upon and pleasing to eat.

THE EXHIBITION SEASON

RECENT SHOWS.

Lenox Horticultural Society.

Never since its organization seven years ago has this society set out for public inspection such a superb exhibition as the chrysanthemum show of 1907 which opened on October 23, in the town hall, Lenox, Mass. The display of blooms was most remarkable for so early in the season and it is very doubtful whether for size, color and finish of blooms this show of chrysanthemums will be excelled at any exhibition anywhere this season. The hall was much too small for the wealth of greenhouse product brought to it by the talented representatives of the gardener's profession who preside over the magnificent estates which abound in the picturesque Berkshire Hills of Massachusetts and the vegetables and the carnations had to be transferred to the basement hall.

Among the cut flower exhibits some of the most interesting were as follows. Large vases of 24 blooms in competition for the Farquhar prizes. Thos. Proctor, gardener to R. W. Paterson, showed assorted varieties; A. H. Wingett, gardener to Charles Lanier, had Beatrice May; E. Jenkins, gardener to Giraud Foster, Wm. Duckham; D. Speirs, gardener to Mrs. J. E. Parsons, a mixed vase. The prizes were awarded in order as given and every exhibit was a stunner. C. H. Totty's special prizes for six long-stemmed blooms of Helen Clay Frick were won by Messrs. Jenkins, Wingett and Speirs respectively with superb specimens. In the gold medal class for six vases of three blooms each Thos. Proctor's winning set comprised the following varieties: Mrs. Henry Barnes, Mrs. A. T. Miller, Reginald Valis, Mrs. J. E. Dunn, Donald McLeod and F. S. Valis, the three first named being new varieties. A. J. Loveless, gardener to Mrs. John Sloane, who won first on set of new varieties of 1907 had in his group, Pres. Loubet, Rose Lawrence, Mrs. Geo. Hunt, H. C. Frick, Reg. Valis, British Empire, Pres. Viger, Mrs. Robt. Lee and Mrs. A. T. Miller. Perhaps the most sensational exhibit in the cut flower classes was a vase of six blooms of Lady Hopetoun by Mr. Wingett; the writer has never seen their equal.

Specimen plants of enormous size were shown by Geo. G. Haven, W. D. Sloane and Mrs. J. E. Parsons, Mr. Speirs' group of plants in 8-inch pots averaging a dozen exhibition flowers each was especially noticeable. We should like to refer in detail to the many other exhibits of high character but lack of space prevents.

The entries in other classes beside the chrysanthemums were of equal interest and high grades. The premiums for arrangements of flowering and foliage plants brought out three groups of sensational quality and effectiveness of arrangement, the winners being E. Jenkins, F. Heeremans and A. J. Loveless respectively. Mr. Jenkins' group contained great quantities of cattleya labiata interspersed with Gypsophila elegans, a combination which fairly sparkled. Oncidiums and Dendrobium

Phalaenopsis were profusely used and the group was crowned with graceful specimens of Cocos flexuosus, while Begonia Turreford Hall, lilies, etc., adorned the base. Neither this nor Mr. Heeremans' group which was awarded second and was good enough to win first prize anywhere had anything of the character of the formal pyramidal style so prevalent in exhibits of this kind, and were an object lesson in decorative plant grouping which should have had a larger hall in order to be seen to advantage. A. J. Loveless showed some glorious orchid groups, including seedling cypripediums and there were magnificent ferns from several exhibitors and many other special exhibits, including a group of crotons of remarkable coloring, not for competition, from Giraud Foster. Roses, carnations and violets were staged in great profusion. The vegetable displays of this society rank highest in the country, and this occasion was no exception to the rule. Fruit was also excellent, Mr. Proctor's Gros Colmar grapes being particularly fine. The judges were: T. D. Hatfield, Wellesley; Robert Cameron, Cambridge, Mass.; James Ballantine and George Middleton, Tarrytown, N. Y. Among the trade visitors were J. K. M. L. Farquhar and W. J. Stewart, Boston, A. T. Boddington, New York, George Struck, Summit, N. J., and Mr. Hay, representing H. A. Dreer, Philadelphia.

California State Floral Society.

The dahlia and chrysanthemum exhibit of the California State Floral Society and the Pacific Coast Horticultural Society was held on October 5 in Polito Hall, San Francisco. Notable displays were made by J. W. Bagge, gardener for Eugene de Sabia, Wm. Kettlewell, gardener for George Pope, William S. Tevis, W. H. Crocker, and R. A. Schultz. The judges were Thomas Monroe, F. A. Miller, Charles Mitchell and J. W. Bagge.

COMING SHOWS.

Pennsylvania Horticultural Society.

The schedule of prizes offered by the Pennsylvania Horticultural Society for the annual exhibition, November 12 to 15 inclusive comprises a large number of liberal special premiums offered by friends of the society for chrysanthemum plants and flowers, ferns, crotons and other foliage plants, roses, carnations, fruits and vegetables. Roses and carnations are to be staged on the second day. George E. Campbell is chairman of the committee to arrange for and superintend exhibitions. The chairman of the committees for awarding premiums are as follows: Plants, J. W. Coffish; flowers, A. B. Cartledge; fruits, John G. Gardner; vegetables, W. Atlee Burpee; new or choice plants, fruits and vegetables, Edwin Lonsdale.

Marin County Horticultural Society (Calif.)

Everything points to the exhibition on the 26th being a grand success. The Armory Hall, the largest in town, has been secured and all available

room will be taken. It was expected that some of the eastern growers of carnation novelties or seedlings would come to the front as the prize offered was one of the highest on the list, but no applications from that source have yet been received. John McLaren of Golden Gate Park, San Francisco, Thomas Wood of San Mateo and Sidney Clack of Menlo Park have been secured as judges.

T. P. REDMAYNE, Secretary.

Denison Show Postponed.

On account of the backward condition of chrysanthemums, the dates of the Denison (Texas) flower show have been changed from November 6, 7, 8 to November 20, 21, 22. This action was deemed necessary for the full success of the show, for which a vast number of chrysanthemums are being grown.

The following have been mentioned at length in preceding issues of HORTICULTURE:

Marin County Horticultural Society, San Rafael, Cal., Oct. 26. T. P. Redmayne, secretary.

Monmouth County Horticultural Society, Red Bank, N. J., Oct. 30, 31. H. A. Kettell, secretary.

Morris County Gardeners' and Florists' Society, Morristown, N. J., Oct. 31, Nov. 1. Edw. Reagan, secretary.

New Haven County Horticultural Society, New Haven, Conn., Nov. 6-8. Walter Koella, 58 Bishop St., New Haven, secretary.

Chrysanthemum Society of America, American Institute, 19-21 West 44th St., New York City, Nov. 6-8. David Fraser, Homewood and Penn Ave., Pittsburg, Pa., secretary.

Nassau County Horticultural Society, Glen Cove, N. Y., Nov. 6-8. J. F. Johnston, secretary.

Horticultural Society of Chicago, Coliseum, Chicago, Nov. 6-12. E. A. Kanst, 5700 Cottage Grove Ave., secretary.

Tarrytown Horticultural Society, Tarrytown, N. Y., Nov. 6-8. E. W. Neubrand, secretary.

Massachusetts Horticultural Society, Horticultural Hall, Boston, Chrysanthemum show, Nov. 8-10. W. P. Rich, secretary.

Horticultural Society of Buffalo, Buffalo, N. Y., Nov. 11-17. J. H. Tranter, P. O. Box 994, secretary.

Florists Club of Washington (D. C.), Nov. 12-14. Chas. McCauley, 18th and Kearney Sts., Washington, D. C., secretary.

St. Louis Horticultural Society, Grand and Park Aves., St. Louis, Mo., November 12-15.

Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Nov. 12-15. David Rust, secretary.

Montreal Gardeners' and Florists' Club, Chrysanthemum show, Nov. 13, 14, Victoria Rifles Hall, Montreal, Que. W. H. Horobin, 283 Marquette St., secretary.

State Floral Society of Arkansas, Little Rock, Nov. 14-16. Chas. Vestal, secretary.

Rhode Island Horticultural Society, Providence, Nov. 15-16. C. W. Smith, 27 Exchange St., secretary.

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THE PROOF

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Worcester County Horticultural Society, Chrysanthemum show, Worcester, Mass., Nov. 14. A. A. Hixon, secretary.

Ontario Horticultural Exhibition, Massey Music Hall, Toronto, Ont., Nov. 12-16. H. B. Cowan, Parliament Buildings, Toronto, secretary.

Denison Civic Improvement League, Denison, Tex., Nov. 20-22. T. W. Larkin, secretary.

Maryland State Horticultural Society, Fifth Reg. Armory, Baltimore, Dec. 3-4. T. B. Symonds, College Park, Md., secretary.

Pittsburg, Pa., is well supplied with Chrysanthemum Shows this fall. The show at H. C. Frick's conservatories, comprising 1,700 plants, opened on October 20. A similar display is to open at A. R. Peacock's on October 27 and the big Schenley Park exhibition is scheduled for November 3 with 13,000 plants in bloom.

PUBLICATIONS RECEIVED.

The Annual Proceedings and Bulletin of the American Rose Society for 1907 has been received. Secretary Hammond is to be congratulated on the very interesting volume he has compiled and on its typographical excellence, and the American Rose Society should benefit substantially from the dissemination of so instructive a report. A number of half-tone illustrations are included. Every lover of the rose should forward dues for the coming year to Secretary Benj. Hammond, Fishkill-on-Hudson, N. Y., and thus contribute their mite towards the good work this society aims to do.

PLANT IMPORTS.

There were entered at the port of New York, October 16 to 22, inclusive, the following plants, etc.:

Via Rotterdam: O. G. Hempstead & Sons, 19 cs. plants; Maltus & Ware, 19 cs. do., 16 tubs do.; Chas. F. Meyer, 80 cs. do.; A. Rolker & Sons, 9 cs. do.; Forwarders, 27 cs. do.

Via Antwerp: H. F. Darrow, 72 cs. plants; Wm. Elliott & Sons, 2 cs. do.; W. Hagemann, 20 cs. do.; O. G. Hempstead & Sons, 201 pgs. do.; Hussa & Co., 63 cs. do., 25 cs. earth, 183 tubs laurel trees; McHutchinson & Co., 30 cs. plants; Maltus & Ware, 354 cs. do., 2 tubs laurel trees; Chas. F. Meyer, 90 cs. plants; August Rolker & Sons, 45 cs. do.; C. D. Stone & Co., 38 cs. do.; Stumpp & Walter Co., 67 cs. do.; J. Ter Kuile, 79 cs. do.; 8 tubs laurel trees; Wakem & McLaughlin, 17 cs. plants; R. M. Ward & Co., 70 cs. do.

Via Havre: H. F. Darrow, 2 cs. plants; Maltus & Ware, 2 cs. do.; J. M. Therburn & Co., 18 pgs. seed.

Via Marseille: R. F. Lang, 13 cs. immortelles; J. P. Rossa, 1 cs. bulbs; telles; Sundry Forw's, 76 cs. bulbs.

Via Southampton: Maltus & Ware, 4 cs. plants, 9 cs. seedlings; C. D. Stone & Co., 9 cs. plants; Patt Bros., 69 cs. bulbs; Vaughan's Seed Store, 1 cs. plants.

Via Hull: H. F. Darrow, 1 cs. plants; Maltus & Ware, 4 cs. do.; C. D. Stone & Co., 38 cs. do.

Via Liverpool: H. F. Darrow, 4 cs. onion seed.

From Hamburg: R. F. Lang, 18 tubs plants; Vaughan's Seed Store, 8 bags seeds; To Order, 1 cs. plants.

MR. PARSONS MISREPRESENTED.

Commissioner Samuel Parsons of New York parks has denounced as "a tissue of falsehoods" the charges which had been published in a sensational New York daily that in his former capacity as landscape architect he had profited personally through the sale of trees to the city at an advanced price, and that in his recommendation for the expenditure of \$2,500,000 on park reconstruction he had been actuated by the business that this would bring to companies in which he is interested. Mr. Parsons asserts that he has no financial interest whatever in Parsons' Sons & Co.'s nursery, the Rare Tree and Plant Company, or the Landscape Engineering and Construction Company, and denies that these companies have ever enjoyed any advantages over other firms in the sale of trees in the park department. Gentlemen among our acquaintances who are in a position to judge correctly, have expressed to us personally their confidence in Mr. Parsons' integrity, and we are willing to take Mr. Parsons' word every time as opposed to the disreputable sheet that attacked him.

A CORRECTION.

We are advised by Messrs. Robt. Scoot & Sons that our mention of Killarney and Liberty as the parents of rose Mrs. Jardine was incorrect. The rose is a product of seedlings of Messrs. Alex. Dickson & Sons, but whether named seedlings or otherwise we are not informed. Mrs. Jardine will be on exhibition in Boston at the Chrysanthemum Show November 8.

Seed Trade

Most of the leading growers of peas have sent out preliminary estimates of deliveries on this year's crops, and as a rule they are fully as low as has been predicted in these columns from time to time. The quantity of "tramp" peas is likely to prove smaller than usual, and no one will use such seed excepting those who look at everything from the standpoint of price only and as to canners, only those who pack cheap goods and buy the cheapest of everything connected with their business. It is quite useless to talk quality to such persons, and only those who have junk to sell and can "make the price," need apply.

Estimated deliveries on "canners' peas" by one or two of the largest growers are very low, averaging from 25 to 40 per cent. There will be fireworks from the canners, no doubt, but if the growers are delivering their full crops less seed stock, they cannot do more. Those firms making these very light deliveries are liable to find life a thorny path when it comes to booking contracts for the 1908 crop, and some of their representatives may need both sympathy and plasters. The developments of the next four weeks promise to be most interesting.

Nothing definite can be said about beans as yet. But few crops have been delivered, and it will doubtless be December before reliable information will be at hand. That the crop has suffered more or less severely as a result of frost and excessive rains cannot be doubted, but as large reserves were carried from last year's crops, there will be no famine in beans excepting possibly a few special varieties which are elusive short croppers, and should be eliminated from the seedsmen's lists.

Such information as has come to hand during the past week regarding this year's sugar corn crop confirm the gloomiest predictions made concerning it. Without a single exception, every known grower says the crop is in a desperate way, all of the late varieties being yet soft and much of the corn still in the milk. What this means requires no seer to realize and conditions are even worse than we dared believe at any time. Even early sorts are said to be very poor and it really looks as if there is little between us and a seed corn famine except such stock as may have been carried from last year. These are not large, and prices are likely to soar before July 1st next, and the highest prices yet named this season will look cheap in two or three months' time.

The latest information of the vine seed crop indicates that it will prove materially shorter than has been generally believed. Detailed information is not yet at hand, but as soon as received it will be given in HORTICULTURE.

Concerning the general line of small seeds, there is little to add to what was given in a recent issue of this paper, but any new developments of importance will be promptly furnished.

Grave complaints as a result of using imported onion seed the past season have reached us, and it is said that several well-known Canadian seedsmen are seriously involved.

Bulbs grown from this seed are said to have developed a very large percentage of "thick necks," and the crops as a whole are reported to have been of so poor a quality as to be practically unsaleable. Here is a concrete example of the folly of trying to save a few cents a pound on seed. Good seed was procurable, but these dealers preferred to risk unknown stocks, because, forsooth, they were cheaper. Verily, they have received their reward.

Clover seed is again in short supply. Last year thousands of bags were imported from Europe, which kept prices somewhat within bounds. But the European crop is somewhat short this year, and they will have a smaller exportable surplus, and it is possible that new high price records may be established for this year's crop. This is an agricultural commodity for which the farmer may have to pay a long price, and his groans and lamentations will then be heard in the land.

Another vegetable seed which is in short supply is the garden beet, the severe winter having played havoc with this crop. We are dependent largely upon Europe for several strains of turnip beets, and the crop abroad is estimated at not more than half of that of last year.

Speaking of crop shortages, special mention should be made of tomato seed, and because of cold, wet weather during the fall the crop ripened very slowly, and prices are likely to rule high, though not necessarily at famine figures. Owing to the high prices for canned tomatoes, jobbers and wholesale grocers are eager buyers of the 1908 pack and high grade pedigree seed will be in active demand by canners, and should bring strong prices.

Flower seeds of the early ripening sorts are generally in good supply. This includes Queen of the Market and other early asters. The late asters are as yet in doubt on account of threatening weather, but it is not unlikely that there will be a shortage of paeony-flowered Victoria and other late sorts. There will also be a considerable shortage of nasturtiums. The new crop of these and, in fact, of many other seeds will be much below the average in vitality and germinative power. The California crop of sweet peas is much below normal, and several seedsmen are already looking to Europe to complete their stocks, but it is difficult to predict at the present time what their success there may be, stocks of the leading varieties being reported in short supply.

Everything considered, the outlook for seedsmen is very rosy, and despite more or less severe shortages in many lines, it will be their own fault if the coming year does not bring them a handsome profit in their business.

The selection of Mr. F. W. Bruggerhof (president of J. M. Thorburn & Company), to be the president of the Wholesale Seedsmen's League for the coming year, has given great satisfaction to the entire seed trade. Mr. Burnett Landreth was chosen secretary and treasurer of the league for the same period.

Messrs. W. Atlee Burpee & Company are meeting with a most splendid re-

ception for their "Burpee's Two New Spencer Sweet Peas"; in fact, orders have already poured in for a great many thousand packets. It certainly would seem as if no seed firm doing a catalogue mail business, either in this country or Europe, would be without these two taking floral novelties for 1908.

On every side, and by our entire seed trade, the greatest sorrow is felt and expressed for the death of Henry Mette of Quedlinburg, Germany. The deceased was a comparatively young man, and esteemed by a large circle of friends. It has been announced that the renowned seed business which bears his name will be continued as in the past.

Messrs. Peter Henderson & Company of New York are doing some very effective bulb advertising in the local New York and Brooklyn daily newspapers. It is really wonderful how the small flower garden trade for hardy bulbs is every year increasing in and around all our large cities—that is, the strictly local business as apart from the mail trade.

CATALOGUES RECEIVED.

Vaughan's Seed Store, Chicago and New York.—Fall edition of Vaughan's Gardening Illustrated.

United States Nursery Co., Rich, Miss.—Fall and spring catalogues of Field Grown Roses, Peonies, etc. An excellent trade list.

Central Seed and Bulb Company, Chicago, Ill. Descriptive catalogue, 1907. A profusely illustrated price list with colored title page of nasturtiums.

New England Nurseries, Inc., Bedford, Mass.—Specialties for Autumn Planting. A summary of the most valuable varieties of evergreens, roses, hardy plants, bulbs, pot-grown strawberries, etc. The New England Nurseries bid fair to fill a place of leadership in the rapidly growing fancy nursery trade of New England.

Meehan's Manual of Outdoor Plants, 45th edition, issued by Thomas Meehan & Sons, Inc., Germantown, Pa., is, as might be expected, a very full and accurate list of ornamental trees, shrubs and herbaceous material, profusely illustrated and typographically handsome. A colored plate of Meehan's Mallow Marvels accompanies the book.

GUARANTEED FRESH SPAWN

CHUCK FULL OF MYCELIUM

8 lbs., \$1.00

Treatise: How to Grow Them.

Wm. Elliott & Sons
201 Fulton Street
NEW YORK

FRESH CROP - 1907 KENTIA SEED

Just received, in splendid condition:

	100	100	5000
Belmoreana or Forsteriana..	.75	\$6.00	\$27.50
Phoenix reclinata .....	.50	3.50	15.00

Address, **H. H. BERGER & CO.**
70 Warren St., NEW YORK.

BULBOUS PLANTS AND TUBEROUS ROOTED PERENNIALS.

Read at S. A. F. Convention, Phila., By
E. V. Hallock, Queens, N. Y.

The most interesting, the least known, and the most misunderstood of flowering plants, are bulbs. In the form of a bulb the latent flower is cared for more easily and longer than in any other form. Bulbs have been used as sustenance for armies, and the caladiums are now used to some extent by Spanish-speaking people, and through the South, as an article of diet.

This paper will not touch on what are known as Holland bulbs but will embrace summer-flowering and winter-flowering bulbs that are used by the amateur and the professional. The profession of raising bulbs for market and for the amateur is vastly different from the profession of raising flowers for market. The person who raises the bulbs seldom sees the flower in so great perfection as the man who flowers the bulb. There are many skilful raisers of bulbs among the amateur cultivators, and in fact I think many amateurs have come to a better understanding of the wants of many kinds of bulbs and raise them in greater perfection, than any profes-

(Continued on page 548)

HERBACEOUS PAEONIES

We are in possession of a fine consignment of roots from Holland, true to name, from 4 to 5 eyes to each division. Varieties such as Modeste Guerin choice rose, Officinalis Rubra red, Festiva white, Mutabilis rose, Rosea Magna cherry red.

While they last \$12.00 per 100

W. ELLIOTT & SONS

201 Fulton St., N. Y.

VINCA SEED

Mr. Florist, do you know the right time to sow Vinca seed is right now.

	Trade pkt.	Per oz.
Vinca Alba, white, with rose centre.....	\$0 15	\$0 50
" " Pura, pure white.....	.15	.50
" Rosea, pink.....	.15	.50
" Mixed.....	.10	.40

BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation. **BODDINGTON'S CHRISTMAS WHITE.** A grand companion to Christmas Pink.

100 per oz.; 1/4 lb. 30c; 1/2 lb. 50c; 1 lb. 75c.

Our Fall Bulb Catalogue now ready. If you have not already secured one, send a postcard today. It contains a full line of bulbs and flower seeds.

ARTHUR T. BODDINGTON, 342 West 14th St. N. Y. City

My GIANT CYCLAMEN

Are ahead in growth and flowers. Bloodred, Carmine, Pink Pure White White with Carmine Eye.

Each color separate. Tr. pkt., \$1.00; 1000 seeds, \$6.00. An even mixture of the above 5 colors tr. pkt., 75c; 1000 seeds, \$5.00. For larger quantities, special quotations.

O. V. ZANGEN, Seedsmen, HOBOKEN, N. J.

G. C. MORSE & CO.

Address all communications to our permanent address
48 to 56 Jackson St., San Francisco, Cal.

The Largest Seed Growers in the United States

Cyclamen Giganteum

MICHELL'S FANCY GIANT STRAIN

Grown for us in England by a Cyclamen specialist; cannot be surpassed for size of flower and brilliancy of coloring.

	100 Seeds	1000 Seeds
Grandiflora Alba, largest white ..	\$1.25	\$10.00
Princess of Wales, pink ...	1.25	10.00
Duke of Connaught, crimson ...	1.25	10.00
Excelsior, white, with red base ...	1.25	10.00
Salmon Queen, salmon pink ...	1.25	10.00
Choice mixed, all colors.....	1.00	9.00

REGULAR STRAIN

Grown for us by a specialist in Germany.

	100 Seeds	1000 Seeds
Album, white	\$.75	\$ 6.00
Roseum, pink.....	.75	6.00
Rubrum, red .....	.75	6.00
White, with red base .....	.75	6.00
Choice mixed, all colors.....	.60	5.00

Write for Our Wholesale Bulb Catalog.

HENRY F. MICHELL CO., 1018 Market St., PHILA., PA.

BAMBOO CANES TOUGH AND STRONG

6 ft. long — \$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO., - 50 Barclay St., New York

WHITE ROMAN HYACINTHS

12x15, \$3.00 per 100, \$23.50 per 1000
15x18, 4.00 " 38 00 "

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

Best Quality Fall Bulbs

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent upon request. Catalogues now ready.

VICK'S SUPERB PANSY SEED

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 75c. 1-4 oz. \$1.50 Ounce \$5.00

JAMES VICK'S SONS, Rochester, N. Y.



BULBS

for immediate planting or forcing.

Let us quote on whatever you need.

H. E. FISKE SEED CO.

12 & 13 Faneuil Hall Square, BOSTON, MASS.

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

CYCLAMEN Farquhar's Giant Strain

Unsurpassed for size of flowers.

Giant Crimson Giant Pink
Giant White Finest Mixed
Giant Excelsior, White with Claret Base

100 seeds, \$1.25; 1000 seeds, \$10.00.

R. & J. FARQUHAR & CO.

6 & 7 So. Market St., Boston, Mass.

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY CO.

32 & 33 So. Market St., BOSTON

HIGH GRADE French and Dutch BULBS

For prompt shipment, our Fall Bulbs Catalogue sent on request.

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

BRASLAN SEED GROWERS CO.

GROWERS FOR THE
WHOLESALE TRADE ONLY

SAN JOSE, - - CALIFORNIA

Cauliflower's CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

BULBOUS PLANTS AND TUBEROUS ROOTED PERENNIALS.

(Continued from page 547.)

sional. These amateurs, however, do not cover a very wide range of bulbs.

Bulb Enthusiasts.

Unless a person has seen the late Peter Hanson holding a bulb in his hand, rapt in blissful contemplation, slowly telling the wants of the bulb in cultivation, describing its habit and its flower minutely, he has no idea of what a hold on the affection a bulb could exert. Mr. Hanson's time and devotion were expended on the lily. He over-estimated its necessities. As I have always found, if you can get a bulb growing you can dispense with many of the directions for growing, but Mr. Hanson, no doubt, took as much pleasure in catering to the growth of bulbs as he did in seeing their flowers.

Mr. Huftelen is the most skilful and successful raiser of *Lilium tenuifolium* from the seed I have ever seen. I think his product exceeded for many years over 30,000 bulbs, of which we bought yearly, during that time, at least 20,000 bulbs at \$15 a hundred—rather good pin-money for an amateur on so little known a variety.

I think it is now about time I got down to the subject of bulbs and bulbous plants. I well know that a paper of this kind to a man who does not raise bulbous plants in a commercial way or as an amateur is positively without interest. Of course, any one knows that a person could talk all day on one class of bulbs, but I propose to skim the subject very lightly.

The Most Valuable Roots.

The most useful, valuable and generally raised classes of bulbs, to my mind, are as follows; their relative proportion of value is indicated by the order in which they are named:

Gladioli; Lilies; Freesias; Peonies (at present a highly worked fad); Tuberoses, for garden and export; and Iris, the Japanese and German, the forcing Irises, and many beautiful species.

Professionally speaking, the introduction of so important a plant as the Freesia—useful and beautiful as it is, so easily kept and readily flowered by both the amateur and the professional—was a fiasco, in the sense that no particular person or firm was responsible for its introduction, and no considerable amount was made by any one with this plant that is so generally used.

The *Amaryllis*, to me, has always been an important family. The habits of most varieties can be so changed that they will flower outside in summer or inside in winter. I much regret that this plant is not more largely grown in this country. The tuberous-rooted begonias have taken their place as summer-flowering bulbs, as well as winter-flowering.

Caladium esculentum is rather largely used as a summer foliage plant.

Cannas are the most important rhizomatous class of plants. Every one knows a good deal about this class of plants. A *Canna* Society has even been suggested.

The Cinnamon Vine (*Dioscorea Batatas*) has some value, particularly to

the person who sells the bulbs. It is a clean, hardy vine, and one peculiarity is that the root grows deeper and deeper in the ground, the older it gets.

Hyacinthus candicans first attracted attention in this country at the Philadelphia Centennial.

Incarvillea is a coming plant, particularly as a garden flower, and undoubtedly can be forced. It has a large, fleshy, good-keeping root; foliage rampant, growth somewhat resembling a fern; immense spikes of gloxinia-like flowers. If you plant five hundred strong roots, the flowers will absolutely come in bloom the same day. It is claimed by some that the roots are hardy.

Madeira Vine bulbs keep almost indefinitely and are, therefore, a good bulb for store trade.

Montbretias. Why this plant is so neglected, I cannot tell. It has many good qualities, is easier to raise, easier to keep and will continue in flower much longer, than the *gladiolus*. The sprays are exceedingly graceful and beautiful. The newer varieties are very striking. The bulbs are nearly hardy.

Oxalis. The summer-flowering varieties of this bulb are largely planted and have some merit, while the winter-blooming sorts, as *Lutea*, *Bowiei* and the so-called Bermuda Buttercup, are among the best of the winter-flowering plants.

Peonies. Can I tell the members of the Peony Society anything about this plant? I think not; but, by the way, it just occurs to me to say that I have bought the past three or four years, from the most reliable firms who raise peonies, some twelve or fifteen of the best varieties, several plants of each kind, for my private garden. When they bloomed this year, should you take out four of the best colors there would be nothing worth speaking of left. Marie Lemoine is what I call a good peony.

Some Mistakes of Dealers.

There are two points I wish to bring to the attention of the profession and the vendors of products.

We all catalogue the different kinds of bulbs as though they were ready for delivery at the same time, and in most cases we try to deliver them. Is it not about time we should state after the description of certain bulbs that they can only be delivered at such and such times? And should not the buyers be taught to wait until the bulbs are in condition to deliver, instead of insisting that they all be delivered at once? Is it not about time that reliable firms should state that such and such varieties will never bloom, or, if in a very rare case they do bloom, that they are not good for anything? Millions of *Anomatheca cruenta* have been sold. Should five out of a hundred of these bloom, as poor as the flower is, it would be a large percentage. Seedling *gladiolus* has been sent to this country for this plant.

How many people here have seen *Lilium Humboldtii* and *Washingtonianum* and *parvum* bloom? I have never seen twelve spikes of these varieties of lilies outside of California, and I have sold tons of thousands of the bulbs, and exported a number each year. This will serve for an evening-up process. *Lilium pardalinum* from

California is a good-keeping, free and sure-flowering lily. Ninety-five per cent. of the bulbs should bloom. *Lilium Parryi* is a very handsome yellow variety from California and is not difficult to bloom. The California bulbs, like *Calochortus*, *Brodiaea*, *Erythronium*, *Comassias*, are all beautiful things and really can be flowered if their requirements of cultivation are met.

On the line of *Lilium Humboldtii*, I will ask what is the use of selling *Lilium candidum* in the spring, and yet many do it.

The Most Useful Lilies.

I suppose it would be well to mention what I consider the most valuable varieties, or species, of lilies. The auratum and varieties are a magnificent class and very popular with most amateurs. You may as well say that the bulbs of the auratum cannot be grown in this country but are imported each year. The varieties of *speciosum* I consider among the most reliable sorts for the amateur to plant.

Double Tiger and Single Tiger and our native lilies, *canadense* and *superbum*, are being used in greater quantities each year, on large estates and in gardens of all kinds. They are low in price, reliable bloomers and very graceful, particularly *canadense*. The *elegans*, or *umbellatum*, or *Thunbergianum*, are very reliable bloomers, bulbs easy growers and good keepers, and many varieties are very handsome. Of course we could easily talk all day on the *Lilium* family, but we shall have to stop somewhere. *Lilium candidum*, and what is known as the Bermuda Easter Lily, are the most important ones for florists' use. *Lilium candidum* should be planted outside, the latter part of September. To me, it is a more beautiful lily than the Bermuda Easter Lily. There are several varieties of *candidum*, but the broad scale, large bulb variety raised in the north of France, is the only one worth forcing. There has been more said, and more can be said, on the Bermuda Easter Lily than ten such papers as this would contain. I think the subject has been pretty well threshed out up to the present time.

Many varieties of lilies have been dropped from the lists of late years, which is probably a good thing. Many sorts could be furnished in good condition if the purchaser were willing to pay for the necessary trouble, and take and plant the bulbs at the proper time. *Lilium Philadelphicum* has almost disappeared from our lists. It can be grown and flowered, but the bulb is so small and the scales so open, that not one in a thousand will bloom. *Lilium Catesbaei* and *Grayii*, also native lilies, are seldom seen except in botanical collections.

Fallacies in Cultivation.

There are some fallacies in cultivation. Many directions for growing different varieties of plants were put in type a number of years ago, when things were thought to require very careful and necessary cultivation. There is a lot of this type that seems to be set up at the present time. I will take as an illustration *Iris Kaempferi*. In 1878, we bought Professor Pringle's entire stock of this plant. There were many very fine

Dreer Specials in Ferns

PTERIS WILSONI We feel very enthusiastic over this fern; it is not only the most graceful, but also one of the hardest of the crested forms of *Pteris*, useful in fern dishes as well as for growing on into specimen plants in 6-inch pans; in this size it appeals to every buyer and meets with ready sales. We have a fine lot of 6-inch pans, \$4.50 per dozen; \$35.00 per 100; 3 inch pots, \$6.00 per 100.

Adiantum Farleyense

A fine lot of 6-inch pots now ready, \$1.00 each.

Adiantum Rhodophyllum

The miniature *Farleyense*, as it is sometimes called, very fine plants,

3-inch pots, \$10.00 per 100.

Adiantum Macrophyllum

The bronzy red or almost crimson foliage of this variety during the Fall months appeals to all. This is the first time we have been able to offer it in quantity and at a popular price; fine 3-inch pots, \$15.00 per 100.

Adiantum Croweanum

We offer a fine lot of this, the most useful and profitable of all the Maidenhair

Ferns for cutting; fine 3-inch pot plants, \$2.00 per dozen; \$15.00 per 100. \$140.00 per 1000.

Nephrolepis Amerpohlii

The Philadelphia Lace Fern—This

is the latest addition to the Ostrich Plume type and is certain to prove a welcome and popular variety, holding for delicacy and gracefulness the same position among the *Nephrolepis* that *Adiantum Gracillimum* does among the Maidenhair Ferns. The pinnae are so finely divided that it reminds one of a piece of fine lace; the fronds are broad and of a depth which gives them a cushion-like appearance. It forms a beautiful specimen and is admired by everyone who sees it. 50c. each; \$3.50 per dozen; \$25.00 per 100; \$200.00 per 1000.

Nephrolepis Todeaoides

Todea, or Flimsy Fern-Like Nephrolepis—This is an English intro-

duction that has received a first-class certificate both from the Royal Horticultural Society and from the Royal Botanic Society of London, and is likely to become a most important commercial variety. While in a general way it reminds one of an exceptionally well-grown plant of *N. Elegantisima*, it is entirely distinct from this and all others, in its strong yet compact growth and its bold heavy foliage, which is distinctly tripinnate or three times divided. Specimen plants which we now have growing are admired by everyone and we have great faith in its future. 4-inch pots, ready Oct. 1st, 50c. each; \$5.00 per dozen; \$40.00 per 100; 6-inch pots, ready now, fine plants, \$1.00 each.

A fine lot of Ferns in 3-inch pots, assorted varieties for Fern dish work. \$6.00 per 100, \$50.00 per 1000.

Asparagus Plumosus Nanus

2 1/4 in. pots, 60c. per doz., \$4.00 per 100; 3 in. pots, 85c.

per doz., \$6.00 per 100.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

varieties, and many of the kinds are sold today. We noticed that the clumps when being subdivided for planting had a large center that was entirely dead or dried up; in many you could put your hand right through the center. This came from leaving the clumps too long before subdividing. We were told that this plant required damp, low ground and if it could be covered by water occasionally it would be better. We planted them on common Long Island plains soil, two feet of soil above clear sand, fifty feet above water. William Falconer, in describing our plantation of iris, said he walked "waist deep" through the plants. When transplanting a field of these, we used a cart and wheelbarrows, and subdivided them with an axe. One year we left several hundred plants along the driveway on top of the ground, when transplanting in the spring. In the fall these plants were alive. Personally, I don't think it is necessary that *Iris Kaempferi* should be flooded with water to produce a good growth.

As this subject seems to be large, and it is necessary and proper that this paper should be short, it is pretty difficult to give anything of real value. But the subject may excite an interest in more people than have ever given it a thought before, and I assure you that it will furnish you a new interest so far as you desire to go.

Bulbs represent one of the most wonderful provisions of nature in the vegetable kingdom. Those grown in arid or desert countries conserve their vitality intact longer than bulbs grown anywhere else. The Mexican bulbs,

grown mostly in arid wastes, will remain in perfect condition when kept out of the ground a year. I believe that bulbs of *Amaryllis formosissima* will remain two years out of the ground in good condition. It seems to be a provision of nature to preserve the life of a plant by building around the germ a bulb and this is one of the most convenient and compact of protective forms. The most striking fact about all bulbs is their endless variety and great beauty, often extending to magnificence. It is this which gives fascination to the subject and makes the raising of bulbs a labor of love.

NEP. WHITMANI

2 1/4 in., \$5.00 per 100

NEP. WHITMANI

3 1/2 in., \$25.00 per 100

BOSTON FERNS

2 1/4 in., \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

JOHN SCOTT

Grower of PALMS, FERNS and Other Decorative Stock

NEPHROLEPIS SCOTTII All the Year Round

Rutland Road and East 45th St.

Telephone 2890 Bedford **BROOKLYN, N. Y.**

ORCHIDS

Just arrived, in fine condition,

Cattleya Trianae (new district).

Oncidium Varicosum Rogersii.

Write for prices.

JOSEPH A. MANDA,

191 Valley Road, WEST ORANGE, N. J.



PTERIS WILSONI

For a complete list of seasonable Bulbs, Plants and Seeds, see our new Wholesale List.

THOUSANDS OF ORCHIDS

In sheath, bud and flower.

Write for particulars and catalogue.

JULIUS ROEHRS COMPANY,
Rutherford, New Jersey.

ORCHIDS

Arrived in perfect condition **Cattleya Mossiae**, also **C. Schroderae**, **Laelia Anceps**, **Epidendrum Vittelnum**, etc., etc. Write for prices.

LAGER & HURRELL, Summit, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

... ORCHIDS ...

Just to hand, **C. Trianae**, **C. labiata**, **C. Mossiae**, **C. latermedia**, **C. Schroderae**, **C. Speciosissima**, **C. Citrina**, **C. Gaskelliana**, **Laelia Anceps**, **L. Albida**, **L. majalis**, **L. Autumnalis**, **Epidendrum Vittelnum majus**, **E. Cooperianum**, **Oncidium Crispum**, **O. Varicosum**, **O. Cavendishianum**, **O. Luridum**, **Odonto Citrosimum**. To arrive in a short time, **C. Dowiana**, **C. Aurea**, **C. Warneri**, **Miltosia Vexillaria**.

CARRILLO & BALDWIN

SFCAUCUS, N. J.

Just Arrived in First Class Condition

C. Trianae, **C. Percivaliana**, **C. Speciosissima**, **C. Gaskelliana**, **Oncidium Kramerianum**.

WRITE FOR PRICES

ORDONEZ BROS.

P.O. Box 105.

MADISON, N. J.

SAN FRANCISCO FLORISTS RE-BUILD.

It gives us much pleasure to present the accompanying picture of a new building being erected in San Francisco by Pelicano, Rossi & Co., for florist purposes. All the trade, we are sure, will rejoice to see these evidences of progressiveness, courage and prosperity



among the florists who suffered so severely in the earthquake fire. This building is located on Kearny street, within half a block of the firm's location prior to the fire. It will be completed December 1, and will be run in conjunction with their store, now at 1345 Sutter street.

NEW RETAIL FLOWER STORES.

Reisch & Barber, N. Alliance, O.
Menke & Co., 925 Vine St., Cincinnati, O.
Peter Manoisos, 82 Hudson Ave., Albany, N. Y.
Amos F. Balfont, 121 Northern boulevard, Albany, N. Y.

OBITUARY.

Francis W. Brewer, the man who did so much to make Hingham beautiful by giving to the town most of its shade trees and by planting many of them with his own hands died at his home in Centre Hingham, Mass., on October 26, aged 61 years. He was an ardent exponent of floriculture and horticulture, and his estate is called one of the most beautiful on the South Shore.

HEADQUARTERS FOR

HARDY FERNS, GALAX, MOSS, LAUREL, PRINCESS PINE, BOXWOOD, FESTOONING, ETC.

Best Ferns in Market \$1.25 per 1000.

See Our Cut Flower Ad.

HENRY M. ROBINSON & CO., FLORISTS' SUPPLIES 15 Province St., and 9 Chapman Pl., BOSTON

ELBERON HORTICULTURAL SOCIETY.

The winter session was resumed on October 7, when the following officers were elected for the ensuing year: Pres., Henry Wood; vice-pres., Anthony Bauer; secy., George Masson; asst. secy., Adam Worth; treas., James Kennedy.

The society held a dahlia show on October 14, when a fine display was made. The principal prize winners were James Dowlen, Seabright, for display of dahlias in vases; E. O'Rourke, collection of dahlias; A. Bauer, vase of dahlias arranged for effect; J. Kennedy, vase of cosmos arranged for effect; Peter Murray, collection of vegetables. Other exhibitors were B. Wych-off, W. Robertson, Henry Wood and J. Goodwin.

The next meeting will be held on November 4, when the newly elected officers will be installed.

GEORGE MASSON, Sec'y.

THE TORONTO GARDENERS' AND FLORISTS' ASSOCIATION.

The regular meeting of the above association was held on Oct. 15, E. Dale of Brampton in the chair. A very interesting discussion took place on the arrangement and planning of the floor space at Massey Hall for the coming Ontario Horticultural Exhibition and also on the Hanging Garden, which it is proposed by the management to place in the centre of the hall about 14 feet above the floor.

E. Dale gave a most practical and interesting talk on roses and their culture, describing the various methods which they have tried at Brampton from time to time. Mr. White, manager of the Bedford Park Floral Company also gave his methods and their results. A vote of thanks was tendered Mr. Dale for his most interesting address. E. F. COLLINS.

SOUTHAMPTON HORTICULTURAL SOCIETY (N. Y.)

The regular meeting of this society was held on October 14, President Clark in the Chair. There were several interesting discussions, the principal one being on the best method of growing dahlias. J. Ager gave a very instructive address on the care and management of a vegetable garden. During the winter meetings will be held on the second and fourth Mondays of each month. U. G. AGER.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The Work of Committees.

New York, Oct. 19th: Mary Donnellan, Brilliant yellow, Jap incurved. Exhibited by C. H. Totty, Madison, N. J. Scored 88 points Commercial and 86 exhibition scale.

DAVID FRASER, Sec'y.

THE AMERICAN CARNATION SOCIETY.

Mr. Peter Fisher, the originator of Beacon, offers \$12 for the best 50 blooms of that variety, \$8 for the second best and \$5 for the third best, to be exhibited at the Exhibition of this Society in Washington, D. C., January 28th to 30th, 1938.

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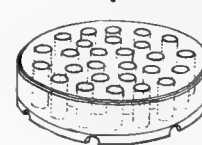


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DETROIT FLORISTS' CLUB.

November 1st has been selected as the date for the club's outing to Mt. Clemens. Al. Pochelon, Wm. Hielscher, and Walter Taepke have been appointed entertainment committee.

On November 19 a private exhibition will be held at Harmonie Hall at which chrysanthemums will be the principal feature. The judges, Messrs. Thomas Brown, Robert Unger and Al. Poche-ion, have been given power to distribute \$25.00 in prizes.

CLUB AND SOCIETY NOTES.

At the meeting of the New Bedford Horticultural Society on October 14 H. A. Jahn spoke on "The Cultivation of Bulbs."

The newly elected officers of the Bloomington (Ill.) Florists' Club are, John Gee, president; George J. Foster, vice-president; Ray Smock, secretary and treasurer.

The Tri-City Florists' Association met on October 10 at the home of President Wm. Knees in Moline, Iowa. H. G. Bryant of the Davenport Nurseries led in a discussion on trees, lawns and shrubbery. The next meeting will be held with Otto Boehm, Davenport.

The first horticultural society west of the Mississippi River was organized at St. Louis, Mo., in 1847, and its first exhibition was held on May 1st, of that year. Thomas Allen was president. Meetings were held monthly and one of the first acts was to elect A. J. Downing as an honorary member.

The Chamber of Commerce of Oakland, Cal., are making an effort to have the State Horticultural Association hold its next flower show in May at Idora Park. Florists from all parts of the state will be invited to exhibit, and valuable prizes will be offered. B. P. Miller has been appointed to confer with the association.

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Flower Market Reports.

BCSTON The market shows a falling off from last week on all lines. Roses and carnations show weakness and the demand for everything is unsteady and erratic from day to day. Chrysanthemums seem to sell fairly well and the surplus is handled satisfactorily so far. Lily of the valley sells well. For violets the demand is fair, but quality generally is poor. The first sweet peas of the season from under glass have appeared at Welch Bros., and they are very fine.

The shop windows are **BUFFALO** now filled with chrysanthemums and decorated in genuine autumn style, and good displays are seen among the downtown florists. The supply at the wholesalers is abundant, and such varieties as Willowbrook, Duckham, Josephine and others were seen in good quality, while a good many of the ordinary kinds move at a slow gait. Roses, Beauties in particular, have not moved too freely the past week. Select Bridesmaids have not been too plentiful, though Chatenay, Killarney and Kate Moulton have taken their place to good advantage. Kaiserin, Detroit and Carnot are still with us. Dahlias, cosmos, gladioli and asters are gradually moving out of existence, especially the latter. Cosmos has been a drag. Carnations are becoming more plentiful daily; the demand is fair with prices a little weaker. Violets are good and sell well. Lily of the valley is of fine quality and plenty of it; in fact, too much at times, while green goods are in good supply.

Business has been satisfactory **DETROIT** factory all around with a scarcity of stock in every line. Chrysanthemums are coming in more freely, but from all appearances this season will not see that large crop and consequent waste we had one year ago. Those of the trade who cater to the bon ton trade are quite rushed with weddings, receptions and dinner decorations.

The cool, bracing **INDIANAPOLIS** weather of the past week has quickened the trade and the volume of business is increasing. A few light frosts the past week killed all outside vegetation. Chrysanthemums are now quite plentiful and at a much lower price than a week ago. So far this year they have not met with the active demand that has usually prevailed at this season. All roses are getting into winter form, some very choice Beauties being on the market. Carnations are being much called for, the best stock finding ready sale. Lilies are a scarce item at the present time. There is a little demand for violets the quality of which is not up to the standard. Lily of the valley and orchids are in good supply and are assured of a good call during the wedding season. All green goods are in good demand daily.

Business is at a **NEW YORK** standstill. The larger chrysanthemums are not bringing what they were the year previous. Carnations are selling fairly well. All outside blooms are spoiled from the heavy frost on Tuesday last.

Chrysanthemums Cattleyas Wild Smilax

The LEO NIESSEN CO., Wholesale Florists

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PHILADELPHIA Demand has been very fair and a distinctively better tone now prevails. Roses are improved in quality generally. A limited cut of the new Irish rose, Mrs. Jardine, is arriving, and is eagerly snapped up. Carnations have also hardened up and last much better. Chrysanthemums, while fine, are not yet sensational as to quality, and much low grade stock is coming in, the latter being very poor property. Dahlias are still to be seen in limited quantity but most of the big growers announced their last shipment on the 21st ult., while some of them finished up even earlier. The lily of the valley market is in healthy shape, with an added zest from the advent of the new giant variety, "Fortin," which has now become plentiful enough to be a commercial possibility. Cattleyas are rather too plentiful and Easter lilies are slow on account of the chrysanthemums. Leucothoe sprays are now arriving of extra fine quality and find ready sale. Wild smilax is also in good demand, but ferns and asparagus go rather slow, quantities of autumn foliage being used at present.

WASHINGTON Conditions in the retail market are improving each day, and all the stores are beginning to assume their wonted air of winter activity. There was a killing frost the night of the 21st and but little vegetation escaped, so dahlias that have been such a demoralizing medium in the market are now virtually things of the past. Violets are coming in in rather better quality and more of them. Chrysanthemums are in their prime and demanding good prices. Carnations are still in very limited quantities but are improving in quality.

ORANGE, N. J., TRADE NOTES.

Charles Maillard of Newark has opened a branch store upon Main street, Orange.

Emil Decker has just put in two new Volunteer No. 7 1-2 boilers of make of W. H. Page of Norwich, Conn., and made other preparations for increased winter trade.

Henry Hornacker has made extensive additions to his plant on Central Avenue, one house 18x104 for carnations, one 16x104 for miscellaneous stock and a propagating house 5 1-2x96. He has installed two Hitchings No. 16 boilers.

NEWS NOTES.

A. Warendorff has only one store now, the one located at 1193 Broadway, New York.

The packing house at Evergreen Lodge Garden, Clarksville, Tenn., was burned on October 18; loss \$600, partly insured.

Theodore Lang, formerly of 670 Sixth Ave., will shortly open a florist store at 53rd street and Madison avenue, New York.

Oliver Croucher, florist of Hudson, Mass., has made an assignment to C. P. Tucker, who will sell the property at auction after it has been appraised.

John McKenzie, for the past fifteen years located on Somerville avenue, Cambridge, Mass., has removed to the corner of Massachusetts avenue and Davenport street.

The contract for the landscape plan at Evergreen cemetery, Norfolk, Va., has been awarded to G. H. Brown, formerly of the Department of Agriculture, Washington, D. C.

A. J. Fellouris, 52 W. 28th St., New York, has filed a petition in bankruptcy; liabilities, \$11,892; nominal assets, \$2,218. Of his liabilities \$8,750 are contingent for store rent.

Fred B. Barrington, the Gloucester florist, has taken a five years' lease of the property of J. F. Wonson, 3d, at East Gloucester, Mass., and has begun to stock the greenhouse there.

Lehnig & Winnefeld of Hackensack, N. J., are sending to Moore, Heutz & Nash a novelty in some very fine coxcomb plants in 5 and 3-inch pots. They sell readily and are very fine for window decorations.

A fire of incendiary origin destroyed the potting house of E. W. Pearson of Newburyport, Mass., on the morning of October 17. The loss is about \$1,000. The buildings were insured. Many plants escaped injury, but the carnations will be a total loss.

The case of Joseph Comley, florist, of Newburyport, Mass., against the Newburyport Gas and Electric Company, to recover for damage to his flowers by escaping gas from the main, has been taken from the jury and referred to an auditor, whose decision will be final.

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	Last Half of Week ending Oct. 19 1907	First Half of Week beginning Oct. 21 1907		Last Half of Week ending Oct. 19 1907	First Half of Week beginning Oct. 21 1907
Roses			Carnations, Fancy and Novelties...	2.00 to .300	2.00 to 3.00
Am. Beauty, fan and sp.	15.00 to 20.00	15.00 to 20.00	Ordinary	1.00 to 1.50	1.00 to 1.50
extra	10.00 to 12.00	10.00 to 12.00	Violets .....	.20 to .50	.20 to .50
No. 1	5.00 to 8.00	5.00 to 8.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
Lower grades	1.00 to 4.00	1.00 to 4.00	Lilies	4.00 to 6.00	4.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp.	3.00 to 6.00	3.00 to 6.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" " lwr. grds.	1.00 to 2.00	1.00 to 2.00	Gladioli	1.00 to 2.00	1.00 to 2.00
Liberty, Richmond, fancy & special	3.00 to 6.00	3.00 to 6.00	Chrysanthemums, Fancy	10.00 to 50.00	10.00 to 50.00
" lower grades ..	1.00 to 2.00	1.00 to 2.00	Ordinary	2.00 to 6.00	2.00 to 6.00
Kaiserin, Carnot, fancy and spec.	3.00 to 6.00	3.00 to 6.00	Adiantum	1.00 to 1.25	1.00 to 1.25
" lower grades ..	1.00 to 2.00	1.00 to 2.00	Smilax	8.00 to 10.00	8.00 to 10.00
Killarney, Wellesley, fan. and spec.	3.00 to 6.00	3.00 to 6.00	Asparagus Plumosus, strings...	25.00 to 25.00	25.00 to 35.00
" lower grades ..	1.00 to 2.00	1.00 to 2.00	" & Spreng. (100 bchs.)	10.00 to 25.00	10.00 to 25.00

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Am. Beauty, Fan. and Sp.	15.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
Extra	15.00 to 20.00	12.00 to 20.00	12.00 to 20.00	12.00 to 15.00
No. 1	10.00 to 12.50	15.00 to 20.00	8.00 to 10.00	6.00 to 10.00
Lower grades	6.00 to 8.00	8.00 to 12.00	3.00 to 8.00	3.00 to 4.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	8.00 to 12.00	7.00 to 10.00	4.00 to 5.00
Low gr.	3.00 to 4.00	4.00 to 8.00	2.00 to 7.00	..... to 2.00
Liberty, Richmond, Chateauf, F&S	6.00 to 8.00	4.00 to 12.00	6.00 to 8.00	6.00 to 8.00
Lower grades	4.00 to 5.00	4.00 to 8.00	2.00 to 6.00	..... to 4.00
Kaiserin, Carnot, Fan. & Sp.	..... to	8.00 to 12.00	..... to .....	..... to
Lower grades	..... to	4.00 to 8.00	..... to .....	..... to
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	8.00 to 12.00	8.00 to 10.00	6.00 to 8.00
Lower grades	4.00 to 5.00	4.00 to 8.00	5.00 to 6.00	..... to 4.00
CARNATIONS				
Fancy and Noveltyes	..... to 3.00	1.50 to 2.50	2.00 to 3.00	2.00 to 3.00
Ordinary	1.00 to 2.00	1.00 to 1.50	1.00 to 2.00	1.50 to 2.00
MISCELLANEOUS				
Violets	.50 to .75	.50 to .75	.60 to .75	.75 to 1.00
Cattleyas	40.00 to 50.00	50.00 to	40.00 to 50.00	50.00 to 60.00
Lilies	..... to 15.00	15.00 to	4.00 to 15.00	15.00 to 18.00
Lily of the Valley	3.00 to 5.00	4.00 to	3.00 to 4.00	..... to 4.00
Chrysanthemums, Fancy	15.00 to 25.00	..... to	15.00 to 20.00	15.00 to 20.00
Ordinary	8.00 to 10.00	..... to	5.00 to 10.00	5.00 to 8.00
Adiantum	..... to 1.00	1.00 to 1.50	.50 to 1.00	1.00 to 1.50
Smilax	12.00 to 15.00	15.00 to	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 75.00	40.00 to 50.00	40.00 to 50.00
& Spreng. (100 bchs.) to 25.00	20.00 to 30.00	25.00 to 50.00	30.00 to 50.00

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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For page see List of Advertisers.

ADIANTUMS

Adiantum Hybridum, 2-1-2 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Bro., Highland, Ulster Co., New York.

ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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J. Lambert, 150 Nassau St., New York, N. Y.

For page see List of Advertisers.

Fall delivery. Our stock will please you.
J. W. Dunford, Clayton, Mo.

ASPARAGUS

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosus, 3 1-2-in. heavy, \$7 per 100. Sprenger, 3 1-2-in. heavy, \$6 per 100. *Smilax*, 2 1-2-in. \$2 per 100. Scranton Florist Supply Co., Scranton, Pa.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

Asparagus plumosus, 2 1/2-in., \$3.50 per 100; \$30 per 1,000; 3-in., 6c.; 3 1-2-in., 10c. 4-in., 12c.; 5-in., 20c.; 6-in., 30c. *Comorensis*, 2-in., 2c.; 2 1/2-in., 3c.; 3 1/2-in., 6c. Sprenger, 2 1/2-in., 3c.; 3 1/2-in., 8c.; 4-in., 10c. J. W. Dunford, Clayton, Mo.

Asparagus, three year old, large Japanese Barbary and Botta Privet. Paper Birch, Catalpas, Russian Mulberry, Sycamores, Golden and Carolina Poplar, Sagar and Norway Maples, Sycamore Maple seedlings, Erie and Rathbun blackberries. Norwich Nurseries, Norwich, Conn.

OUR SPECIALTY.

Asparagus plumosus, *Asparagus Sprenger* and *smilax*.

Wholesale and retail.

Pleasant View Greenhouses. A. L. Warner, Prop., 102 East St., Pawtucket, R. I. Tel. 535 L.

AUCTION SALES

Sales of Decorative plants, Carnations, etc., every Tuesday and Friday. If you cannot attend send bids and shipping instructions. Catalogues on application. N. F. McCarthy & Co., 84 Hawley St., Boston.

AZALEAS

The best commercial varieties. J. W. Dunford, Clayton, Mo.

BAMBOO CANES

Stump & Walter Co., 50 Barclay St., New York.

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Yokohama Nursery Co., 31 Barclay Street, New York.

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BAY TREES.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BOILERS

BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths; Bermuda Easter Lilies. For page see List of Advertisers.

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Rickards Bros., 37 East 19th St., New York. White Roman Hyacinths. For page see List of Advertisers.

H. F. Mitchell Co., Philadelphia. For page see List of Advertisers.

H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

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Aug. Rolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs.

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John Scheepers & Co., 4 and 6 Old Slip, New York.

Lily of the Valley Excellenta.

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Yokohama Nursery Co., 31 Barclay Street, New York.

Japan Liliun Longiflorum.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Ray, N. Y.

CHRYSANTHEMUMS

Chrysanthemums, 1200 shapely pot grown 6-in. best varieties, 25 to 35c. each. J. W. Dunford, Clayton, Mo.

500 white Chrysanthemum plants, out of 6 (six) inch pots, in bloom, 25 cents each. Ed. A. Lorentz, Middletown, N. Y.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2 1-2 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

CHRYSANTHEMUMS.

Stock plants of early kinds now ready: MONROVIA, MONTMORT, ROSIERE, TOUSET, POLLY ROSE, PACIFIC, OPAH, BERGMANN, and all standard earlies \$4 per 100. Later kinds, Nov. 1. Stock plants of all of Hill's and Totty's novelties of this year, \$10 per 100. Send for catalogue of over one hundred kinds now ready. HARLOWARDEN GREENHOUSES, GREENPORT, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Oak Hill Nurseries, Roslindale, Mass.

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Bay State Nurseries, North Abington, Mass.

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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Edwards Folding Box Co., Philadelphia. For page see List of Advertisers.

Metmore Box Factory, Inc., Belleville, Ala. Light Wood Boxes.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 1741 N. 18th St., Philadelphia.

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DAHLIAS

David Herbert & Son, Atco, N. J. For page see List of Advertisers.

J. L. Moore, Northboro, Mass.

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Dahlia, just as dug from field; cactus, show, fancy and decorative, over 100 varieties. Write for prices. A. W. Gardiner, Lock Box 575, Springfield, Mass.

DAISIES

The Fernery, 1421 Charles St. N., Baltimore, Md.

New Double Daisy.

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White Marguerite Daisies, 2-in. pots, \$2.00 per 100. E. O. Perry, Berlin, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J. For page see List of Advertisers.

Anton Schultheis, College Point, N. Y. For page see List of Advertisers.

J. Lambert, 150 Nassau St., New York. For page see List of Advertisers.

EVERGREENS

Evergreens for window boxes. Hand-some little trees, well furnished. Norway Spruce, Retinosporas, Irish Junipers, Pines and Arborvitae 12 to 30 inches high. Write for prices. Maurice J. Brinton, Christiana, Pa.

FERNS

A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass. Nephrolepis Whitman.

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Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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John Scott, Brooklyn, N. Y. For page see List of Advertisers.

Bostons, 2 1-2-in., 4c.; 3-in., 8c.; 4-in., 15c.; 5-in., 25c.; 6-in., 40c.; 7-in., 65c.; 8-in., \$1 to \$1.50; 10-in., \$1.50 to \$2. J. W. Dunford, Clayton, Mo.

FERTILIZERS

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.

Wizard Brand Cattle Manure.

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FIELD GROWN CARNATIONS

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Field Grown Carnations.
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Chas. H. Green, Spencer, Mass.

R. Engelman & Son, Pittsfield, Mass.

Carnations extra large and strong stock, field-grown, Crocker, \$4.00 per 100. W. C. Pray, Kinkora, N. Y.

Bargains—Strong field-grown Carnations, Louise, Harlowarden, Lord, \$3.50 per 100. Larger quantity at your own price. Try a few. Henry Schrade, Saratoga Springs, N. Y.

Surplus Carnation plants: Enchantress, Lawson, Queen, Fair Maid, Rose-Pink Enchantress, Victory, etc. For information write Peirce Bros., Waltham, Mass.

Carnations, field-grown, large plants, 1075 Q. Louise, \$5 per 100, \$48 the lot; 300 Harlowarden, \$5 per 100, \$13 the lot; second-sized plants, 300 Harlowarden, 75 Prosperity, 75 W. Lawson, 75 Patten, \$3.50 per 100, \$15 the lot. J. W. Dunford, Clayton, Mo.

FLORISTS' GREENING PINS

Wm. Schlatter & Son, Springfield, Mass.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' LETTERS.

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Koral Mfg. Co., 26 Hawley St., Boston.
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Decorative Evergreens.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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P. J. Hauswirth, 232 Michigan Ave., Chicago.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 614 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway, New York.
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W. H. Donohoe, 17 E. 28th St., New York.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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A. Warendorff, 1193 Broadway, New York.
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Robert G. Wilson, Fulton St. & Greene Av., Brooklyn, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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GALAX

Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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Finest green and bronze Galax in any quantity at lowest figures. N. F. McCarthy, 84 Hawley St., Boston.

GERANIUMS

R. Vincent, Jr. & Sons, White Marsh, Md.
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Geraniums, Strong stock. 3-in., 4c., 3 1/2-in., 6c. Rooted cuttings, \$15 per 1000. J. W. Dunford, Clayton, Mo.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.
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J. L. Moore, Northboro, Mass.
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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.
Augusta gladioli, and white and light. Rowehl & Granz, Hicksville, L. I., N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury St., Boston.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GLAZING PUTTY

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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., Tonawanda, New York.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.
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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.
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D. Hiffe, 49 Washington St., Boston
Piping and Construction.

S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouse, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

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I. Cassidy, 215 to 221 Randolph Ave., Jersey City, N. J.
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GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND SUPPLIES

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Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Fancy Ferns.
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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

In writing to Advertisers kindly mention Horticulture

HARDY HERBACEOUS PLANTS

M. H. Walsh, Woods Hole, Mass.
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Bay State Nurseries, N. Abington, Mass.
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Eastern Nurseries, M. M. Dawson, Mgr.,
Jamaica Plain, Mass.
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New England Nurseries, Inc., Bedford,
Mass.
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Hardy Perennials: extra large field-grown clumps, three dollars and four dollars per hundred. Delphinium, Coreopsis, Digitalis, Platycodon, blue and white, Anthemis, Hibiscus, Gaillardia, and many other standard species. Samples sent by express on receipt of stamps to cover cost and packing. James Krewson & Sons, Cheltenham, Montgomery County, Pennsylvania.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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John A. Payne, 260-274 Culver Ave., Jersey
City, N. J.
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Johnston Heating Co., Lexington Ave. and
29th St., N. Y.

HEMLOCK BRANCHES

Hemlock Branches for protecting Roses, Rhododendrons, Tender Evergreens, etc. Butts, pointed, 3 to 5 ft., \$4 per 100; 5 to 7 ft., \$5 per 100. Tied in bundles, f. o. b. Quincy or Brockton. Larger or smaller branches furnished. Special prices for large lots. Pine boughs in bundles or large quantities. Address, G. H. Higgins, 125 Atlantic St., Atlantic, Mass.

HOT-BED SASH

The A. T. Stearns Lumber Co., Napa-et,
Mass.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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INSECTICIDES.

Nicotieide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil.
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Carman's Anti-pest.
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Benjamin Hammond, Fishkill-on-Hudson,
N. Y.
Slug Shot; Grape Dust.
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IRISES

Henry A. Dreer, 714 Chestnut St.,
Philadelphia.
Japanese and German Iris.

We have 100,000 Japan irises, the finest
collection in this country. Rowehl &
Graz, Hicksville, L. I., N. Y.

Iris pallida Dalmatica, fine lavender
blue, the largest and finest variety of all
the German Irises; divisions, \$15.00 per
100. Cash with order. J. A. Peterson,
Westwood, Cincinnati, Ohio.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St.,
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JAPAN CUT FLOWER HOLDER

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A. Warendorff, 1193 Broadway, New York.
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Robert G. Wilson, Fulton St. and Greene
Ave., Brooklyn, N. Y.
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Mills the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILIES

E. M. Ingalls, 43 Whiting St., Lynn,
Mass., grower of Calla, Candidum, Har-
risii and Longiflorum Lilies, wholesale
and retail.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 12 W. Broadway and 227
Greenwich St., New York.
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MUSHROOM SPAWN

100 lbs. best English, \$6; 250 lbs. at 5½c.;
brick prepaid, 22c. J. J. Styer, Concord-
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NEW AND RARE PLANTS

Rose Hill Nurseries, New Rochelle, N. Y.
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NICO-FUME

Kentucky Tobacco Product Co., Louis-
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Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK

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American Nursery, Bagshot, England.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Oak Hill Nurseries, Roslindale, Mass.
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Oaks, Pines, Deutzias.
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Red Rose Farms and Nurseries, G. C. Wat-
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Shrubbery: Clearing Sale.
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Nursery Stock, N. F. McCarthy & Co.,
84 Hawley St., Boston, Mass.

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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
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PALMS

A. Lenth & Co., Roslindale, Mass.
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Kentia, Phoenix, etc., all sizes. Write
for new price list. Julius Roehrs Co.,
Rutherford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.
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PAINT AND PUTTY: Ideal Greenhouse
lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice pansy plants, 50c. per 100; \$4.00
per 1000. Cash. Aug. Zirngibel, Need-
ham, Mass.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat,
Leaf-Mould, Live Sphagnum moss, Baled
Sphagnum moss, Green Clump moss, etc.
Jobbers' list on application. C. W. Brown-
ell & Co., Walden, N. Y.

PEONIES

Wm. Elliott & Sons, 201 Fulton St., New
York.

Herbaceous Peonies.

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M. H. Walsh, Woods Hole, Mass.

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Peonies and Perennials; Peony, Phlox
and Evergreen Manuals, 25 cents each, in
stamps. C. S. Harrison's Select Nursery,
York, Nebr.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and
Wrought Pipe. Valves, Elbows, Pipe Hooks,
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
For page see List of Advertisers.

POT HANGERS

Pot hangers. Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

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PRIVET

Trained Privet: Pyramidal and standard forms; three thousand shapely plants; five to eight feet; excellent for screening and ornamental purposes; at trifling cost as with Bay Trees. Prices on application. James Krewson & Sons, Cheltenham, Montgomery County, Pennsylvania.

RAFFIA

R. H. Comey, Camden, N. J.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, England. For page see List of Advertisers.

ROSES

M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Roses and Ramblers. For page see List of Advertisers.

Thomas Roland, Nahant, Mass. Lady Gay Roses.

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J. Lambert, 150 Nassau St., New York, N. Y. For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.

Rambler Rose, Newport Fairy.

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A. B. Davis & Son, Purcellville, Va.

Baby Rambler Roses.

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Low-budded roses, No. 1, \$5.00; No. 1-2, \$6.50 1000. H. T. Jones, Elizabeth, N. J.

SEEDS

T. J. Grey Co., 32 So. Market St., Boston, Mass.

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Joseph Breck & Sons,

51 and 52 N. Market St., Boston, Mass.

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J. M. Thorburn & Co., 33 Barclay St., N. Y.

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Vinca Seed. For page see List of Advertisers.

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James Vick's Sons, Rochester, N. Y.

Vick's Superb Fanny Seed.

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Hjalmar Hartmann & Co.,

12 Stormgade, Copenhagen, Denmark.

Cauliflower and Cabbage Seed.

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Rickards Bros., 57 E. 19th St., New York.

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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.

Giant Cyclamen Seed.

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C. C. Morse & Co., 48-56 Jackson St.,

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Brasian Seed Growers Co., San Jose, Cal.

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Cyclamen Seed.

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Kentia Seed.

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Barenbrug, Burgers & Co., Arnheim.

Grass Seed Specialists.

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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VEGETABLE PLANTS

Tomatoes for forcing, 2 1-2 in. Comet, \$2.50; Lorillard, \$2.00 per 100. Roney Bros., West Grove, Pa.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.

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John A. Payne, 260-274 Culver Ave., Jersey City, N. J.

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VENTILATING MACHINERY, New Model enclosed, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

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Baur Floral Co., Erie, Pa.

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Princess Violets.

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R. Engelman & Son, Pittsfield, Mass.

Dorsett Violets, \$2.25 per 100. Cash. Wm. Schaffer & Son, Dover, Del.

5000 clumps California violets, ready now, finest stock in the west, 4 1-2 c. 250 or more at 4c. J. W. Dunford, Clayton, Mo.

Violets—30,000 strong, healthy, field-grown Campbell and California No. 1, at \$2.50 per 100; \$20 per 1,000. No. 2, good plants, at \$1.50 per 100; \$12 per 1,000. Satisfaction guaranteed or money returned. None better. The California, extra large and fine clumps, packed to Carry Safely. I have shipped over 10,000 already with entire satisfaction. Chas. Black, Hightstown, N. J.

WIRE STAKES

W. W. Coles, Kokomo, Ind.

Galvanized Wire Stakes.

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WIREWOK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The 'Just Right' kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

WHOLESALE FLORISTS**Boston**

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SPECIMEN PYRAMIDAL BOX.
New England Nurseries, Belford, Mass.
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WANTS, FOR SALE, ETC.
Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED
WANTED—An experienced carnation and chrysanthemum grower as foreman. Address with references, G. B. Buxton, Nashua, N. H.

SITUATIONS WANTED
AMERICAN seed, bulb and nurseryman, 20 years' all round experience, store, nursery and landscape work, will be open for engagement Nov. 1 to 15. First-class salesman and correspondent; large experience in catalogue work. Would like to have proposition from any seed, nursery or landscape firm in New England. References. Address Seeds, care HORTICULTURE, 11 Hamilton Place, Boston.
ACCOUNTANT—Twenty-four years' experience as bookkeeper, cashier, cost and billing clerk; will work by the hour adjusting small or large accounts, caring for private estates or other clerical work. E. M. Ingalls, 43 Whiting St., Lynn, Mass.
SITUATION WANTED by gardener with good record, private place preferred. Married, two children. Address N., care HORTICULTURE.
SITUATION WANTED in general greenhouse work; single, age 35, five years' experience, commercial. Address W. W., care Horticulture.

WANTED. Position as manager of plant and fern growing establishment. Experienced. L. care HORTICULTURE.

WANTED—Position in store, young man, five years' experience. Address R. care of Horticulture.

FOR SALE
FOR SALE—Easter Lilies and Tuberous rooted Begonias in large pots; we grow for the wholesale and retail trade Longifloras, Harrisii, Candidums and Callas; also potted Carnations and Stock Gillies for the Christmas trade. Greenhouse and salesroom, 43 Whiting St., Lynn, Mass. E. M. Ingalls.

FOR SALE—One top delivery wagon and one open delivery wagon, suitable for a florist's use; almost new and in good order; also a pair of good delivery horses; the above can be bought at your own price. Ed. Hignons, 146 West 28th st., New York.

USEFUL BOOKS.

We can supply the following books, postpaid, at the prices listed:—
The American Carnation. C. W. Ward. Price, \$3.50.
Chrysanthemum Manual. Smith. Price, 40 cts.
The Dahlia. By L. K. Peacock. Price, 30 cts.
Dwarf Fruit Trees. Waugh. Price, 50 cts.
Manual of the Trees of North America. C. S. Sargent. Price, \$6.00.
The First Country Park System. F. W. Kelsey. Price, \$1.25.
The Horticulturist's Rule-Book. Bailey. Price, 75 cts.
The Chrysanthemum. Herrington. Price, 50 cts.
How to Make Money Growing Violets. Saltford. Price, 25 cts.
The New Cyclopaedia of America Horticulture. L. H. Bailey. Six large quarto volumes; 146 full-page plates; 25,000 plant names; \$25.00 in payments of \$1.00 down and eight monthly payments of \$3.00 each, or cash payment of \$23.75.
Daffodils-Narcissus and How to Grow Them. A. M. Kirby. Price, \$1.10.
Commercial Violet Culture. Dr. B. T. Galloway. Price, \$1.50.
Water Gardening. Peter Bisset Price, \$2.50.
Lawns and How to Make Them. Leonard Barron. Price, \$1.10.
Roses and How to Grow Them. By Many Experts. Price, \$1.10.
HORTICULTURE PUB. CO., 11 Hamilton Place, BOSTON

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:
BUFFALO, N. Y.—E. C. Brucker, 385-87 Ellcott St.
CINCINNATI, OHIO—Frank W. Ball, 81 East 3d St.
DETROIT, MICH.—Frank Danzer, 1487 15th St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
MONTREAL, P. Q.—Gabriel Vrengde, 27 Ontario Ave.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
PITTSBURG, PA.—James Hutchinson, corner Dunmoyle and S. Negley Aves.
ST. PAUL and MINNEAPOLIS—John A. May, 163 Iglehart St., St. Paul Minn.
TOLEDO, OHIO—J. L. Schiller, 829 Prouty Ave.



BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

?

Is Your Name In The Above List? If Not, Why Not?



TWEMLOW'S OLD ENGLISH GLAZING PUTTY

ONE OF THE MOST SERVICEABLE ARTICLES IN THE WORLD.

Liquid, in gallons to barrels of 50 gallons,

Is sold by many of the Florist Supply houses in the United States.

Hammond's Paint and Slug Shot Works, Fishkill-on-Hudson, N.Y.

Slug Shot Kills Sow Bugs.

Grape Dust Kills Mildew.

GREENHOUSES BUILDING OR CON- TEMPLATED.

Dover, N. H.—C. A. Davis, one house.

Streator, Ill.—Thos. Johns, vegetable house.

Erie, Pa.—M. T. Wilkins, range of houses.

Albany, N. Y.—A. F. Balfont, house 19 x 25.

Canal Dover, O.—Wm. Judy, house 60 x 200.

Tacoma, Wash.—Frank Spaulding, one house.

Nevada, Mo.—G. P. Kaupp & Son, one house.

Tacoma, Wash.—Tacoma Cemetery, one house.

Rochester, Mich.—Frank Dahlman, house, 20 x 60.

Kent, Wash.—Seattle Carnation Co., house 25 x 170.

Watertown Mass.—W. W. Rugg, lettuce house, 150 ft.

Spokane, Wash.—Empire Plant & Floral Co., one house.

Schoclercraft, Mich.—Cropson & Simmonds, range of houses.

Exeter, N. H.—Exeter Rose Conservatories, violet house, 10 x 100.

So. Sudbury, Mass.—Jas. Tulis, one house; S. A. Anderson, one house.

Platteville, Wis.—Schaefer & Reinke, four houses, one 25 x 65, three 50 x 320.

Atlanta, Ga.—John L. Watkins & Son, one house 14 x 100, one house 14 x 76.

Cleveland, O.—C M. Wagner, conservatory; Chas. Bramley & Son, range of houses.

Minneapolis, Minn.—Lakewood Cemetery Association, two houses 56 x 102, 20 x 60.

E. C. Mather of Woodside, L. I., has just completed the erection of three new greenhouses. Fittings boilers were installed.

MOVEMENTS OF GARDENERS.

John Heeremans has taken a position as superintendent of the estate of R. T. Wilson, Jr., at Bluffington, N. C.

Matthew Brophy has taken a position as head gardener with C. C. Green, New Canaan, Conn.

INCORPORATED.

Drexel Floral Co., Chicago; W. T. Underwood, D. B. Cole, A. L. McElroy, capital, \$1,000.

David S. Beach & Sons of Oklahoma, City, Okla., and Bridgeport, Conn.; D. S. Beach, J. H. Beach, Jr., Bridgeport; E. V. Remington, Oklahoma City; capital, \$100,000.

BUSINESS CHANGES.

The Anderson Floral & Nursery Co. has purchased the business of McCart & Anderson, Fort Worth, Texas.

YES!

Advertising in Horticulture

PAYS.

"SOLD OUT."

Niagara Falls, N. Y., July 17, 1907.
HORTICULTURE Publishing Co.

Gentlemen: Please discontinue our adv. for Begonias which you inserted last week. The whole lot was taken by one firm, and to date it is necessary that we return cheques amounting to nearly \$200.00.

We are greatly pleased with the adv., although we regret that we have to return cheques on hand.

Very truly yours,

E. A. LUTLER & SON.

"SOLD OUT."

August 28, 1907.
HORTICULTURE.

Discontinue all my advs. Sold out. Daily have to return cheques for goods cannot get for inquirers.

(Signed) I. M. RAYNER
Greenport, I. I., N. Y.

"APPRECIATED IN INDIANA."

HOETICULTURE Publishing Co.,
Boston, Mass.

Dear Sirs:—Enclosed you will please find check for amount due you to date. Please accept our thanks for waiting on us and for the large amount of inquiries and business your magazine has sent to us. Sincerely the little ad. we placed with you has done us a lot of good and as we cannot keep up with the orders at present we will kindly ask you to discontinue the ad until we notify you again, later on.

Respectfully yours,

THE HEIM SUPPORT CO

"IMMENSE BUSINESS."

Would say and glad to say that I am sold out of my pansy stock. Thanking you very kindly for the immense business your paper has alone favored us with.

Yours truly,

WM. DOBBERTIN.

Rochester, N. Y., April 29, 1907

"RESULTS SATISFACTORY."

Sept. 26, 1907.
Please discontinue ad; will have something else later. Results satisfactory.

W. H. & C. B. NEWMAN,
Akron, N. Y.

"PLANTS ALL SOLD."

October 7, 1907.
HORTICULTURE:
Please discontinue ad. Plants are all sold.

Yours respectfully,

BLANKSMA BROS
Grand Rapids, Mich.

WHY

Advertising in Horticulture

PAYS.

"ACCURATE REPORT."

June 26, 1907.
HORTICULTURE Publishing Co.

Mr. Wm. J. Stewart, Editor:

Dear Sir: Allow me to congratulate you upon the accuracy of your market reports. "Comparisons, of course, are odious" but I must say that the reports in HORTICULTURE in my opinion (at least as far as this market is concerned and that is the only one in which I am conversant with the conditions) more nearly hit the nail on the head and size up the market better than any of your contemporaries. At least that is the belief of

Yours sincerely,

C. M. A

"WOULD HATE TO DO WITHOUT."

West Newton, Mass., July 3, 1907
Hort. Pub. Co., Boston, Mass.

Dear Sirs:—Enclosed you will find check for \$1.00 to pay subscription on paper "HORTICULTURE" which I would hate to do without.

Very truly yours,

H. M. SHURBERT
1600 Washington St.

"WELL LIKED."

St. Albans, Vt., July 15, 1907
Your Paper is well liked. Find enclosed \$1.00.

HENRY BRYANT.

"INDISPENSABLE."

Doylestown, O., July 15, 1907.
Gentlemen:—Find enclosed money order for \$1.00 for HORTICULTURE another year. We feel we cannot successfully manage our greenhouse without it, and at present we are building an 80 ft. addition.

Yours respectfully,

Wayne Co., Box 307.
C. A. MUSSER.

"IN HIGH ESTEEM."

We hold your journal in high esteem and welcome its weekly appearance.
Very truly yours,
THE ELM CITY NURSERY CO
New Haven, Conn.

"PARTICULAR PLEASURE."

Pennsylvania, Sept. 14, 1907.
Dear Sir:—Allow me to congratulate you upon the manner in which you handled copy in connection with the recent convention in Philadelphia, and I would also like to acknowledge particular pleasure in the notes you publish from the other side of the water. E. P.

Tobacco Paper

S THE

**STRONGEST,
BEST PACKED,
EASIEST APPLIED.**

24 sheets.....	\$ 0.75
144 sheets.....	3.50
288 sheets.....	6.50
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1/2 Gallon.....	5.50
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New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
Yours truly,
GEO. A. SKENE.

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Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
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- 867,278. Fertilizer Distributer. Louis A. Keene, Waterman, and Mott R. Pharis, Moline, Ill.
867,121. Manure Spreader. Elmore P. Ross, Springfield, Ohio, assignor to the E. W. Ross Company, Springfield, Ohio.
867,451. Planting Machine. Theodor Umbath, Chicago, Ill.

Issued October 15, 1907.

- 868,148. Hoe. James S. Williams, Wool Market, Miss.
868,256. Cultivator. Thomas Mulally, Princeville, Ill.
868,510. Harrow. Harry U. Wakefield, Cornersville, Tenn.
868,597. Draft Equalizer. William L. Chrysler and Joseph W. Kays, Eugene, Oregon.
868,601. Draft Equalizer. Egbert O. Deak, Cedar Rapids, Iowa, assignor to William T. Jones, Cedar Rapids, Iowa.

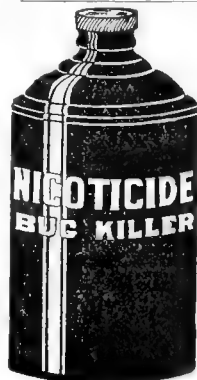


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For the Garden, Orchard and Greenhouse.

Non-poisonous and harmless to vegetation. Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use cheap and effective mixes readily in water. Destroys all insect pests and keeps down the Circars on application. \$1.50 per gallon. Also in quarts, half gallons and in bulk.

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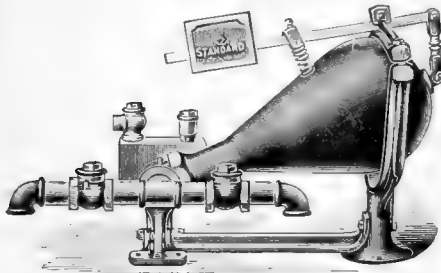


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gives shade and still allows free circulation
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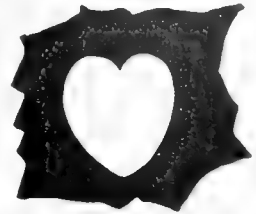
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3 ft. \$6.00 per 1000 5 ft. \$ 9.90 per 1000
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Greenhouse Material

cannot be surpassed. Our
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date in all respects, and that
it will be a good house for
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Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/2 " " " 5.25	60 8 " " " 3.00
1500 3 " " " 6.00	
1000 3 " " " 5.00	
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500 4 " " " 4.50	
320 5 " " " 4.51	
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Seed pans, same price as pots. Send for price list of
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THERE ARE A LOT OF LAST THINGS to do around your house at this time of the year.

Things that you haven't had a chance to do until now. There is ventilating apparatus, for instance. Florists are still ordering our Oil Itself Gear for houses put up the early part of the season, and for the propagating houses that open gear which so long ago won its name for speed and great power. All the good points of the open gear are in the Oil Itself, with gear and mitre both completely enclosed and working in oil. Then it has the added advantage of taking up considerably less room. Write us.

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GREENHOUSE DESIGNERS AND BUILDERS.

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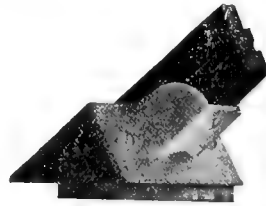
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EAVE PLATE TALK

IT'S not so many years since we used a wooden eave plate, but that was then — this is now; and the man who keeps on using a wooden eave plate to-day, either doesn't know thoroughly what our Ice-Clearing Eave Plate is and how it adds tremendously to the strength and life of the house, while decreasing the shade by more than a half; or he just plain won't listen or look into it. We have a circular that tells about the eave plate question in a "stop all argument" kind of way. Send for this circular.



We make every part of a greenhouse but the glass. We sell any part.

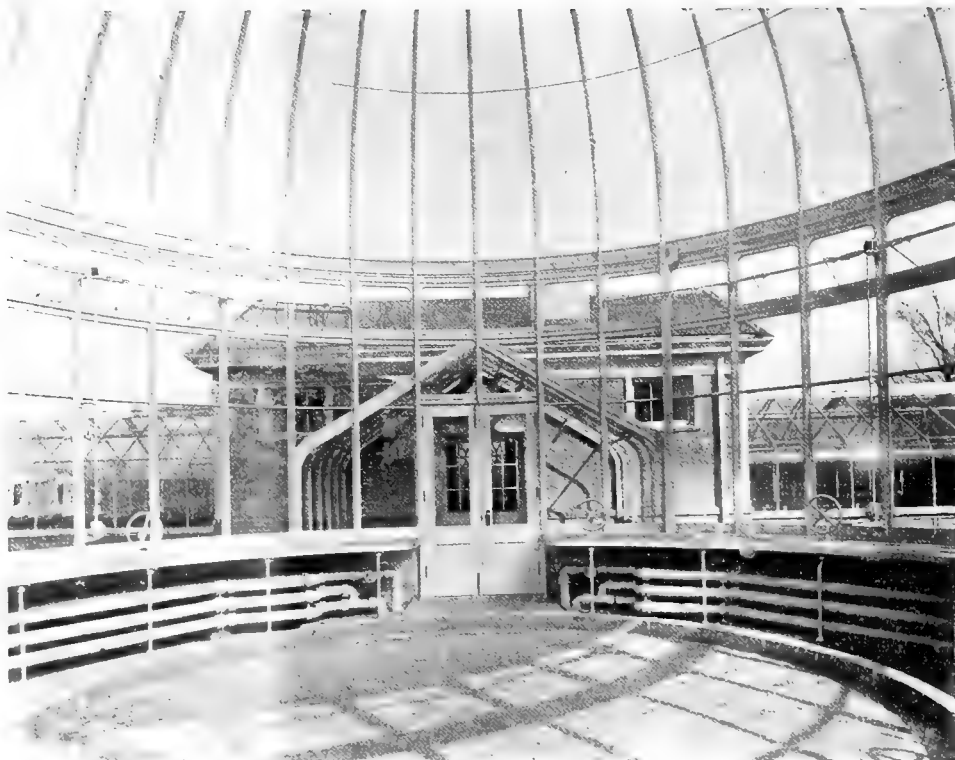
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HORTICULTURE

Vol VI.

NOVEMBER 2, 1907

No. 18



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2 years, field-grown, extra strong plants, over 100 best varieties, \$10.00 per 100, \$85.00 per 1000.
Crimson and Baby Ramblers, \$12.00 per 100.
Manetti and Briar Stock for grafting, \$10.00 per 1000, \$80.00 per 10,000.

Lily of the Valley finest forcing brand, \$12.00 per 1000

Kentias, Forsteriana and Belmoreana, fine plants, \$6.00 to \$25.00 per 100

DRACAENA INDIVISA, strong, well-grown plants, 3-in. \$4.00 per 100; 4-in. \$10.00 per 100; 5 in. \$15.00 per 100

Rubbers (Ficus elastica) strong plants \$20.00 per 100

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Pandanus Veitchii, well colored, strong plants, \$25.00 and \$35.00 per 100

Araucaria excelsa, 2-3 tiers, \$20.00 per 100, 3-4 tiers, \$40.00 per 100.

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Plants from 3-inch pots 10 to 12 inches high, 4 to 5 leaves, \$2.00 per doz., \$15.00 per 100.

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\$7

5000
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10,000
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Rose Blanche. \$1.00 per 100, \$7.50 per 1000.

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Empress. Extra sized bulbs, \$1.75 per 100, \$15.00 per 1000.
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Double Von Slon. First sized bulbs, \$1.25 per 100, \$9.00 per 1000; extra sized bulbs, \$1.50 per 100, \$12.00 per 1000; double-nosed bulbs, \$2.00 per 100, \$18.00 per 1000.

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Miniature, or Dutch Romans. A fine assortment of the best named varieties, \$1.75 per 100.

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Finest Named Varieties. Baron von Brunow, David Rizzio, Mont Blanc, La Majestueuse, Mammoth Yellow, Purpurea Grandiflora, Queen of the Netherlands, and Sir Walter Scott. 60c. per 100, \$4.00 per 1000.

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CARNATIONS. Field-grown, Mrs. T. W. Lawson, Red Lawson, \$6.00 per 100, \$55.00 per 1000; Mrs. F. Joost, \$4.00 per 100, \$35.00 per 1000, 250 at 1000 rate

VIOLETS. Field-grown, Imperial, \$5.00 per 100, \$45.00 per 1000, 250 at 000 rate. Princess of Wales, \$6.00 per 100.

Hydrangeas, Ferns, Ivies. Write for prices.

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Place your orders early for Dec. delivery

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Chrysanthemum GOLDEN GLOW

Larger than Monrovia; incurving form; of easier culture. Cut Aug. 20th to Sept. 10th. Certificate C. S. A. Sept. 7th, Scoring 91 Points.

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Strong 2½ in. Pot Plants, 50c. each; \$35.00 per 100. GET IN LINE

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Chrysanthemum Novelties a Specialty.

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A long list of varieties true to name. Write for prices.

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500,000 large Flowering Gladioli, hundreds of colors and variations mixed. Wholesale prices on application. Order now for spring delivery. Catalogue free.

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For Protecting Roses, Rhododendrons, Tender Evergreens, etc.

Per 100
Butts, pointed, 3 to 5 ft., \$4.00
" " 5 " 7 " 5.00

Tied in bundles, f.o.b. Quincy or Brockton. Larger or smaller branches furnished. Special prices for large lots. Pine boughs in bundles or large quantities. Address,

G. H. HIGGINS, 125 Atlantic St. Atlantic, Mass.

Choice Ornamentals

20,000 Berberis Thunbergii, 18 to 24 inch.
5,000 " " 12 to 18 "
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20,000 Vinca Minor (Grave Myrtle).
8,000 Red Oak Trees, 4 to 6 ft.
12,000 Cherry and Plum Trees, 1 yr., 3 ft.
40,000 Norway Spruce, White, Austrian and Scotch Pine, 1 yr transplants, 6 to 12 inch.
1,000 White Pine, 12 to 18 inch. transplants.
2,000 Norway Spruce, 12 to 18 inch. transplants.
1,000 Viburnum opulus, 2 ft.
1,000 Viburnum dentatum, 2 ft.
1,000 Rhodotypos kerrioides, 2 ft.

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10,000 American Red Oak, 4 to 6, 6 to 8, and 8 to 10 in.
3,000 Swiss Stone Pine, 3 years. 3 to 4 in., stocky
1,000 Deutzia Lemoinei, 8 to 10 and 10 to 12 in.
Sample and price on application.

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Berberis Thunbergii } LARGE STOCK.
Hydrangea Pan. Grand, } Send for Prices.
Honeysuckle Heckrottii }

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PYRAMIDAL BOX.

Specimen Trees, with or without Tubs.

	Each.	Per Pair
PYRAMIDS, 5 ft.	\$3.50	\$6.00
" 4 "	2.50	4.00
" 3 "	2.00	3.50

	Each.	Per Pair
PYRAMIDS, 2½ ft.	\$1.50	\$2.50
BUSH FORM, 12 in., 30c each, \$2.50 for 10		
" " 18 " 40c " 3.50 for 10		

TREES, SHRUBS, ROSES, HERBACEOUS PERENNIALS
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W. W. COLES, Kokomo, Ind

American Beauty

BLACK-SPOT

A neatly kept house of Beauties, in a thrifty good growing condition, is at all times a pleasant sight and the grower who can carry his stock along during the transition from natural to artificial heat, without contracting mildew or black-spot is indeed a "grower."

Now that firing is once again on the program, our chances of escaping a visit from either of these pests are more favorable. Still, our greatest safety lies in our ability to avoid those conditions favorable to the germination and growth of these diseases.

Root action being slower now than during the summer, good judgment must be used when watering, as any check to the growth caused by overwatering is almost certain to be followed by a visit from black-spot. Care in ventilating is particularly necessary to keep it from getting a start and should be so regulated that no sudden chill may occur, and also at the same time prevent as much as possible any condensation from taking place. This latter may be accomplished by keeping up sufficient heat to cause a gentle circulation of air, thus preventing stagnation.

Watering and syringing should be done as early in the day as possible, so that the foliage may have a good chance to dry before night. Wet foliage over night is a fruitful source of this trouble, and should if possible be avoided.

If after using every precaution, black-spot makes its appearance in the house, no time should be lost in going after it. Pick off and burn every affected leaf. Some growers are woefully negligent in this respect, and instead of burning the diseased leaves, just dump them outside the door along with the rest of the rubbish. This practice is, to say the least, very unsafe, as we cannot say that some of these leaves will not be returned to the house, thus augmenting, rather than diminishing the trouble.

If the disease shows a tendency to spread it is advisable to use the carbonate of copper compound (cupram) using five ounces of carbonate of copper to three quarts of ammonia and sixty gallons of water. This mixture may be applied either with an ordinary bucket pump, or an automatic sprayer. With the latter, the writer's experience has been confined to the simplicity sprayer, which has proven very satisfactory, as, with this style of pump, the operator's attention may be devoted entirely to the spraying, thus saving time, material and patience. All dead and decaying leaves, and weeds should be removed from the benches and walks and burned, as, apart from the danger of disease lurking in this refuse, it is here that thrips and other insect pests find a refuge from tobacco fumes. Tying the plants so that the air can circulate freely among the foliage, will also prove helpful in combating this dread disease.

J. E. Simpson

Eucharis Stevensii

This fine variety was raised about twelve years ago by the late son of Stevens of odontoglossum fame at Stone in Staffordshire and deserves to be more widely grown. The parents were grandiflora x Amazonica and the result is a good illustration of the value of cross breeding a strong and good variety with a relatively weak and poor one, such as grandiflora undoubtedly is. Stevensii is superior to Amazonica in several important characteristics; the foliage is larger and borne on longer foot-stalks which gives a better appearance; the flowers are white and fragrant but a trifle smaller than Amazonica, the petals being reflexed; the flower is more elegant than that variety and better suited for floral purposes; its floriferous character is much in its favor, good plants throwing up four or five sets of spikes, its flowering period thus covering quite 9 months of the year. The plant is a vigorous grower and so far as my experience goes it is mite proof. Eucharis succeeds best in a warm, moist stove with a liberal supply of syringing; it is a mistake however to water freely except when spikes are pushing up when a little liquid manure is of service. A mild bottom stage suits them well as they do not like drying out too quickly; too much disturbance of the roots is against free flowering, therefore pot in good turfy loam and peat of good texture in well-drained pots. Stevensii as a pot plant for show purposes is a graceful subject but it is well worth growing in quantity on commercial lines for cutting. Planting out in beds is undoubtedly more favorable to vigorous growth and free flowering conditions than pot culture. On all points it is superior to Amazonica, though that well known variety has served excellently in the past.

Edgar Elwin

Care of the Hardy Border

Directly after a few degrees of frost the mixed border becomes unsightly and is often allowed to remain in this condition for a considerable time. In order to secure permanent favor for these interesting hardy plants a little attention at this time of year is recommended.

The beds and borders should be kept in the finest possible condition; the decayed leaves and flower heads that are past should be removed as soon as they become fit. A very common practice is to cut these hardy plants down to the ground after flowering which is certainly a mistake as the tops give a considerable protection to the crowns of the plants throughout the winter. Those which produce berries and some of the iris seedpods may be retained to advantage as they are interesting and brighten the border at this time of year.

All bulbs for spring flowering should be planted by this time. These give much better effect when planted in large groups with some of the taller varieties in the front to give desired irregularity. Much better effect is thus obtained than where excessive uniformity is observed. With such a large list of bulbous plants to choose from the hardy border can be made much more interesting and the flowering season greatly extended.

David Miller

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The public and the chrysanthemum show

An English writer bemoans the abandonment of the "board system" of exhibiting chrysanthemums and is disposed to attribute the abatement of public interest in chrysanthemum shows to the change from boards to vases in staging blooms. It is human nature, from childhood up, to lay blame elsewhere than where it belongs. "Now, see what you made me do," says the little girl to her companion when she gets herself into trouble. It is our recollection that the method of dis-

playing chrysanthemums with long stems and foliage in vases received its first stimulus here in Boston. To a certain extent chrysanthemum shows have lost their sensational drawing power here as elsewhere but it has never occurred to us to charge it up to the disappearance of the sprawling beheaded bloom from the exhibition table. On the contrary, we are satisfied that the showing of chrysanthemums with stem and foliage has helped and not hurt the exhibition in the eye of the public. What is needed now to regain popularity for the shows is more attention to the displaying of the decorative possibilities of the chrysanthemum in all its various classes. Almost without exception our exhibitions are conducted from the standpoint of the culturist. To the expert they are profoundly interesting and instructive but if the public purse is to be allured to the ticket office, something must be done to whet the interest and curiosity of the great majority to whom scales of points offer no inducements.

Postal Progress in sight

The Society of American Florists has listened to more or less discussion of the advantages of a parcels post at its recent conventions and, on two occasions pledged itself, by vote, to work for the establishment of a system of parcels delivery through the post office department on lines similar to those followed in many foreign countries. No doubt the members of that Society, and florists, seedsmen and plantsmen generally, will read with pleasure the sentiments of the new Postmaster General on this topic as presented in another column of this paper and rejoice that at last this reform, long agitated as an antidote for express company rule, is likely to be given a fair trial. Enjoying, as certain horticultural products do, a special advantage in existing postal rates, our particular industries would gain, perhaps, only a minor advantage under the plan now advocated by the Postmaster General but as an "entering wedge" the innovation will no doubt prove most welcome and, the principle of popular service through this method being once established, it is reasonable to expect that its facilities will be gradually extended and lower rates become a reality in the near future. The seed trade has good reason to feel proud that it can claim within its ranks a man who can secure the attention of men of the highest influence in mercantile and political life as Mr. W. Atlee Burpee was able to do in the remarkable meeting at Philadelphia last Saturday evening.

The business outlook

A pessimistic feeling seems to prevail in some quarters as to the business outlook for the coming season. This is especially true in New York and is undoubtedly due largely to the influence of the stock market depression and those interests most directly concerned therewith. Much stress is placed upon recent "shrinkage in values" of various properties and the consequent economies forced upon the class of people who have been good spenders in the flower market. Perhaps it is a case of the wish being "father to the thought" but we are inclined to think that these forebodings will turn out to have been without substantial cause and that the effect of present stock vicissitudes on an otherwise prosperous country has been overestimated. It has been freely charged that the hysterical conditions which culminated in the calamities of the past two weeks were deliberately promoted for the purpose of raising a clamor against the President's policy towards monopolistic corporations. Be that as it may, we see nothing

in the situation that can be construed as boding great disaster to florist, seed or nursery interests. Satisfactory crops of all the great agricultural staples with splendid prices therefor are among the signs of the times upon which we may rely for a continuance of the good business of the past year. Naturally the confidence inspired by this state of affairs will make itself felt first in the agricultural sections but we are greatly mistaken in our estimate if within a short time it is not felt in every part of the country.

British Horticulture

HORTICULTURAL INSTRUCTION

Mr. T. S. Dymond, a well known expert, has published a paper in which he makes a comparison between the different methods of teaching gardening in English and American schools. "At one English school" he writes "I asked how deep the soil was, what the stones were, and whether they were any good (they were chalk stones), what the name of the principal weed was (it was Bindweed), and why it was so difficult to eradicate, and why they sowed their beans deeper than their turnip seed?" To not one of these questions could I get an intelligent answer. Their teacher had not told them. Now, I don't believe in gardening which is merely telling how to do things. . . . This side of school gardening is the side which is unsatisfactory in this country. In America it is the reverse. There, as practical gardening it is almost ridiculous; but as training the children to exercise their intelligence about the things that form their surroundings, natural and artificial, which will be useful to them afterwards in rural life, it is far ahead of ours." In Britain there is apparently a good deal of conservatism in our educational methods. Modern teachers are content to carry on the traditions of their predecessors, without adapting themselves to the new conditions. In many instances, too, the instruction is imparted by men whose knowledge is of a theoretical character only, and whose efforts are consequently considerably handicapped when it is a case of making actual demonstrations to the students.

THE PEAR MIDGE

For the suppression of the pear midge, the Board of Agriculture recommends a top dressing of Kainit. It is stated that growers will find it advisable to give Kainit a fair trial, at the rate of half a ton to the acre, a quantity which may be safely used where the orchards are laid down with grass, or not cultivated with strawberries or vegetables. In support of this recommendation it is said that Kainit has been successful in killing the larvae in the United States, and that experiments in this country have also been satisfactory, provided that the application is made just before the larvae leaves the fruit--that would be the first week in June or, in some districts, a few days earlier. It is admitted, however, that a Herefordshire grower who employed this method in his orchards got negative results. There seems to be a difference of opinion amongst experts as to the efficacy of the remedy. Mr. W. E. Collings, of the Birmingham University, in a recent report on injurious insects states that the application of Kainit as a cure for the pear midge is a waste of time and money. As an alternative he recommends "the simple method of turning the surface soil." By this means, he asserts, the pear midge has been almost entirely destroyed in many orchards. When experts disagree in this manner, who is to decide? The standard work of the late Miss Ormerod favors the Kainit remedy, this being supported by the

successful experiments made by Professor J. B. Smith in New Brunswick.

THE NATIONAL CHRYSANTHEMUM SHOW

The principal show of the season, arranged by the National Chrysanthemum Society takes place at the Crystal Palace on November 6 and two following days. There is usually at this exhibition a good display both in the trade and amateur sections. The chief class is that for a display of cut blooms, to include four distinct sections, and to be arranged on the floor with foliage plants, in pots or otherwise, and to occupy a space of 300 ft. Medals will be awarded as prizes. One of the favorite classes is the President's prize of five guineas for 24 Japanese distinct. An interesting correspondence has taken place respecting the advantages of exhibiting chrysanthemums on boards in preference to vases. Norman Davis, of Framfield, an experienced grower, considers that the introduction of vases for showing has been the cause of a decline in the interest taken in the exhibition. W. J. Godfrey, another leading exhibitor, takes a similar line. The latter writes: "No one can deny the fact that the public do not attend the autumn shows in the same numbers as in days gone by, neither are fanciers of the Chrysanthemum in the same numbers." Mr. Godfrey has suggested that the National Society should call a conference of growers to discuss "boards v. vases," and also "How to increase the popularity of the Chrysanthemum." One cause, I consider, of the falling off in the attendance of visitors at the National show is the change of location. The old centre provided by the now-demolished Westminster Aquarium proved very convenient owing to its being in the midst of London, convenient for most railway termini. The Crystal Palace necessitates a journey out of London of about seven miles, which has to be performed on a line not noted for its quickness or convenience of service.

PROGRESS OF THE ROSE SOCIETY

It is satisfactory to record that steady progress is being made by the National Rose Society. At a recent committee meeting, Mr. E. Mawley, the Honorable Secretary, reported that 216 members had joined during the three months ended Sept. 30. Next year the Society will hold four exhibitions instead of three, two in London and two in the provinces. The Metropolitan show is fixed for July 9th at the Royal Botanic Gardens, Regents' Park, which on previous occasions has been found very suitable for this purpose. The northern show will be held at Manchester in association with the White City. The usual autumn show will take place at the Royal Horticultural Society's Hall, Westminster. The southern show has been revived for the purpose of enabling amateurs in the south to exhibit under the best possible conditions. The place and date of this show have not yet been fixed. The committee are evidently doing their utmost to continue the good work commenced by the late Dean Hole, and the increasing roll of members is a forcible proof that the "Queen of flowers" is enlarging the number of her liege-subjects in the British Isles. An interesting feature is the strong rivalry which exists amongst the trade growers in each branch of the United Kingdom. The advantage secured at the autumn show by the Scottish growers will stimulate the southern rosarians to increased efforts.

W. H. Adsett.

PARCELS POST IN PROSPECT

A NOTABLE EVENT AT PHILADELPHIA.

Under the hospitable roof of the Union League of Philadelphia, on invitation of and under the inspiration of that master-mind of the seed trade, W. Atlee Burpee, there took place on Saturday evening, October 26, a most notable gathering of the business men of Philadelphia with a number of other invited guests from other cities to meet the honorable George von L. Meyer, Postmaster General of the United States, for discussion of parcels post, postal savings banks and other subjects in the line of postal advance.

The dinner was held in the main banquet hall and the tables were arranged as they were at the famous banquet in honor of Prince Henry of Prussia. Autumn leaves, chrysanthemums, roses and palms were blended in the decorations, while electric chandeliers on the tables and in special wall designs added to the brilliant scene. Screened by palms, an orchestra played throughout the evening, and in every detail the dinner and service upheld the traditions of the Union League.

Mr. Burpee, who has for many years been an enthusiastic advocate of postal progress sat at the centre of the long table. The Postmaster General was at his left and Senator Penrose, chairman of the Senate Committee on Postoffices and of the Joint Committee of Congress for Investigating the Business Methods of the Postoffice Department, was at the right. Sitting next to General Meyer was W. W. Potter, former Minister to Italy, a post since held by Mr. Meyer, the two being intimate friends. Two seats away sat John Wanamaker, a former Postmaster General and himself an advocate of parcels post and many other reforms in the postal service. A letter of regret had been received from still another former Postmaster General, Charles Emory Smith, Philadelphia having furnished two holders of this portfolio within recent administrations. Representatives Moon and McCreary sat side by side at the left of Senator Penrose.

Mr. Burpee, in introducing Postmaster General Meyer, referred to the need of postal reforms and declared that one law, at least, under which the department was conducting business dated from 1792.

"That is too far back even for conservative Philadelphia," he declared, amid laughter.

Before presenting the guest of the evening, the chairman proposed a toast to the President of the United States, which aroused great enthusiasm. The band struck up the "Star Spangled Banner," and all hands joined in the chorus. After emphasizing the great importance of the topics chosen for the evening's discussion, Mr. Burpee presented Postmaster General Meyer, who was received with rousing cheers.

In beginning his remarks the Postmaster General indicated that his address would be in the nature of a forecast of his forthcoming report to Congress. He said:

"Three matters of great importance are the extension of the present parcel



W. ATLEE BURPEE

post, the installation of a special parcel post on rural routes and the establishment of postal savings banks.

"What I am attempting to do is to abolish an injustice and one might even say an un-American practice. I refer to the policy of charging our own people 16 cents a pound, with a weight limit of 4 pounds, while giving a rate of 11 cents a pound, and a limit of 11 pounds on packages destined out of the country to 22 foreign countries. Consequently I shall recommend the same rate and the same limit of weight for parcels, whether intended for points in this country or abroad, which means a reduction of 4 cents a pound and an increase in the maximum weight to 11 pounds. This certainly is only equitable."

The Postmaster General explained that the parcels post is already here, and what he proposed was merely an extension.

"Heretofore the opposition to the extension of the parcels post has come in the first instance from the express companies, and then from the retail merchant and the country storekeeper, the fear in his case being that the mail order house would derive a benefit to his own disadvantage. Now, I can disarm the criticism of the retail country merchant and storekeeper by the fact that I shall recommend a parcels post system on the rural delivery routes, a special rate to be charged on packages for delivery from the distributing office of the rural route, or if mailed by a patron of any rural route for delivery to a patron on the same route or at the distributing office of said route. The rate would be 5 cents for the first pound and 2 cents for each additional pound up to eleven pounds. This will be a great boon to the farmers and others on the rural routes because when they are able to order their goods by telephone or postal card, it will relieve them of the inconvenience of going to town to obtain the necessities of life."

Mr. Meyer spoke at length in favor of the establishment of postal savings banks and displayed an insight into large national movements which was a convincing evidence that the post office department under his management will surely "get a move on."

Ex-Postmaster General John Wanamaker was the next speaker.

"The footprint of the mail carrier," said Mr. Wanamaker, "is the sign of civilization. The Postoffice Department of the future, I believe, will have more to do with the election of our presidents and Congresses than all the national, state and city committees. The big majority of President Roosevelt was brought about by the rural free delivery. The country people reading and thinking in the silence of their own homes made up their minds what was the right thing to do.

"Regarding parcels post, I urge it, believing that the interests of 85,000,000 of people are greater than those of only 5,000,000 storekeepers. I speak with full knowledge when I say that the large department stores which have mail order departments, of which the country storekeepers are afraid, are not profitable departments. Those establishments which do no other business do, I admit, conduct the mail order business with a profit. But they send no samples, as do the department stores; the merchandise is selected from a catalogue picture. But the mail order department of the retail store, feared so much by country storekeepers, is not a paying investment.

"To my mind the unfairness in the world is the refusal to increase the Post Office appropriation because of the Post Office deficit. The cost of the ship Post Office subsidies is charged to the Post Office, whereas, it does not belong to it. It is an encouragement to the merchant marine. Why should the Post Office Department be burdened with it? Why should the Post Office Department encourage the merchant marine? It is a wrong system of bookkeeping.

"It seems to me reorganization is needed in the bookkeeping department. Why should a deficit of this character be charged to the Post Office Department any more than to the navy or to the seed department of the Bureau of Agriculture?"

Senator Boies Penrose, Postmaster Ashhurst of Philadelphia. Hon. Wm. Potter, late ambassador to Rome, Finlay Acker and J. Horace McFarland, each made interesting speeches, all on progressive lines excepting Mr. Acker's repetition of the long-discredited assertion that the present second-class mail rates are responsible for the apparent annual deficit in the post-office department. Mr. McFarland made a forcible presentation of the needs of the commercial interests of the country who use third-class mail, for straight pound weight rates. Following is the list of guests.

E. W. Alexander, Robert Buist, Ralph Blum, Gabriel Blum, Isaac Blum, Rudolph Blankenburg, A. E. Brown, William Findlay Brown, Cyrus H. K. Curtis, John G. Croxton, William

M. Coates, Robert Craig, William F. Dreer, Charles Gibbons Davis, Colonel James Elverson, Jr., Howard M. Earl, Congressman W. W. Foulkrod, William F. Fell, Robert T. Frothingham, John E. J. Fanshawe, Howard R. French, Henry A. Fry, William H. Helsier, Samuel Y. Heebner, James F. Hope, Samuel Heilner, David Hutzler, H. O. Hildebrand, W. A. Higinbotham, Hon. Albert G. Hetherington, John M. Harper, Professor Jacob H. Hollander, W. G. Huey, Joseph DeF. Junkin, W. G. Johnson, Herbert W. Johnson, Constant E. Jones, Mahlon N. Kline, N. B. Kelly, William A. Law, J. Bertram Lippincott, Burnet D. Landreth, Samuel D. Lit, Isaac M. Loughhead, William H. Maule, William L. McLean, George P. Morgan, A. C. McGowin, Thomas Edwin Murphy, H. S. Prentiss Nichols, George W. Ochs, Hon. W. W. Porter, Harold Pierce, Theodore Presser, Fred. Powers, Max Riebenack, District Attorney Samuel P. Rotan, William T. Rolph, A. Maxwell Sheppard, John F. Simons, William J. Stewart, Alex. B. Scott, John Sailor, John L. Stewart, Walter F. Stokes, James F. Sullivan, Edw. S. Strophar, Joseph Snellenburg, William R. Tucker, William T. Tilden, E. A. Van Valkenburg, Theodore Voorhees, Henry M. Warren, H. W. Wood, S. F. Willard, Douglas M. Wylie, Clinton Rogers Woodruff, Colonel Francis E. Waters, Hon. Harmon Yerkes.

A QUESTION OF NOMENCLATURE.

THE NOMENCLATURE OF HYDRANGEA ARBORESCENS STERILIS.
(GRANDIFLORA ALBA.)

Editor National Nurseryman:

This new Hydrangea is now being catalogued by nurserymen, who naturally regard Bailey's Cyclopaedia of American Horticulture as the standard of authority in nomenclature. The name under which this work describes the new candidate for public favor is given at the head of this article and is botanically correct, descriptive, and was the first published. This plant has since been registered with the Society of American Florists as "*H. arborescens grandiflora alba*." This name is descriptive but is long and is so similar to the *H. paniculata grandiflora* as to cause confusion in the minds of the people as well as on the packing ground. Permit me to suggest that nurserymen catalogue this plant according to Bailey, who is our "law-giver" as to names.

J. W. McNARY.

Dayton, Ohio.

Note:—How is this brother Registrar of the S. A. F.? What about the rule of priority?—Ed.

The above communication appeared in the last number of the "National Nurseryman." As it seems to suggest some doubt as to the validity of the name registered with the S. A. F. by the introducers of the plant in question, we wrote to the E. G. Hill Company for their views, and have received the following letter, which, we think, will prove interesting reading to the trade. It affords convincing proof of the wisdom of being up-to-date in matters of horticultural interest, by taking advantage of existing mediums for publicity and by becoming identified with the only national body which has, so far, made any serious effort to provide a means for establishing plant names. It appears to us that upon the publication of the registered name by Mr. Hill

those who had known the plant by another name should have immediately informed the secretary of the S. A. F., who, not being omniscient, would, no doubt, have been grateful (as Mr. Hill would also have been) to get the information:

Mr. Hill's Letter.

Richmond, Ind., October 28, 1907.

Wm. J. Stewart, Boston, Mass.

Dear Sir:—The name given to the new hydrangea was suggestive, we thought, of its character, color of the flower, etc. We did not know the hydrangea had been named by Mr. Bailey in his Encyclopedia of Horticulture previous to the name *Abborescens grandiflora alba* having been registered with the S. A. F. by our firm. Had we known of this, we would not have suggested any other name. The name registered by the S. A. F. has been adopted by nearly all if not all the catalogue men both in America and Europe and such being the case and as "*Sterilis*" has not come into general use why not let it go as registered?

We were the first to bring this plant into notice through a published description and also, we believe, the first to introduce it commercially, hence we were perfectly right in appending the name given and registered. This hydrangea had been growing under the very noses of J. W. McNary and E. Y. Teas for years and years yet they never saw it or, if they did, they did not give publicity to the fact.

A word about the variety. It has been found growing near Kokomo, Ind., Columbus, Ind., Allegheny City, Pa., Yellow Springs, Ohio, and was widely distributed through the Miami Valley. There are a number of bushes in Dayton, Yellow Springs, Urbana, Springfield and Piqua. Some, or in fact most of them, are quite ancient, judging by appearances. We know of two plantmen who were importuned to propagate the variety with a view to its distribution but failed to do so but now are great admirers of this most beautiful of all hardy shrubs.

Yours,

E. G. HILL.

IN TOUCH WITH THE BEAUTIFUL.

"When God planned the universe. He built a vast flower garden. Each star shines with a beauty all its own. One is a ruby, another an amethyst. There is an opal. Off in the distance is an emerald and beyond a sapphire. When the Great Horticulturist drove his plowshare through the field of azure, He strewed the furrows with stars, which are like vast bouquets in the hand of the Infinite. Up there we shall see as God sees, with no diminution in ratio as to distance, Orion of the Pleiades, with broad landscapes of marvellous loveliness. The distant Milky Way, which lies like a snow-drift far away, will roll up before us into limitless fields of beauty. The Southern Cross will be a floral cross, and every star an immortal. Vast abysses of glory flooded with the mingled effulgence which comes from myriads of suns, will lie over all that immensity, and it will be beauty—beauty everywhere.

"Such being our inheritance up there, would it not be a good plan to get in touch with the beautiful down here? Don't you know that you can gather tints from these sun mantles and from the rainbow and weave them into gardens of beauty down here, and brighten up this old somber world of ours so it will be a prophecy of what lies before? Then peering out of the unseen are myriads of forms of surpassing loveliness human eye has not yet seen, and there they are patiently waiting for you to introduce them to the world."—C. S. Harrison.

AMERICAN POMOLOGICAL SOCIETY.

A Letter from the Secretary.

Mr. W. J. Stewart,
Editor HORTICULTURE,
Boston, Mass.

Dear Sir:—I observe in your recent report of the meeting of the American Pomological Society and allied organizations at Jamestown, that your correspondent informs the public that the National Council of Horticulture "assigned" to the American Pomological Society the dates occupied by them at their recent meeting. The matter is so small that it is hardly worth mentioning, but on behalf of the Pomological Society I feel called upon to state that this national organization first selected the dates mentioned, namely, September 24-26, and that the other horticultural societies, as the Society of Horticultural Science, the National Nut Growers, and the Maryland Horticultural Society, agreed to hold their respective meetings on the same week. When these arrangements were made, the National Council then decided to hold its session the day preceding the opening of the American Pomological Society's convention. The American Pomological Society has not thus far recognized the authority of any publicly organized, or self-constituted body to "assign" a date or dates for its biennial sessions.

Yours sincerely,

JOHN CRAIG,

Secretary Am. Pomological Society.
Ithaca, N. Y.

OHIO HORTICULTURAL SOCIETY.

A Letter to the National Council of Horticulture.

Mr. H. C. Irish, Sec'y,
National Council of Horticulture,
St. Louis, Mo.

Dear Sir:—It occurs to me that we as fruit growers are not giving sufficient attention to the matter of keeping the people informed as to the desirability of making fruits an important part of their daily food. In other words, we need an acting bureau of publicity.

This season we do not realize the necessity of this, but if this lean season should be followed by one of plenty, which will probably be the case, we may find that the people who have from necessity been sparing in their use of fruit this season will continue to use it sparingly, to the great loss alike to producer and consumer.

In working for our own selfish interests, in this case we are also doing a great good to the public at large.

It seems to me that your National Organization should take up this matter and bring it before the state societies at their annual meetings this winter.

Yours truly,

W. W. FARNSWORTH,
Secy. Ohio Hort. Society.

Waterville, O.

The Garden, London, sends out a striking colored print of paeony Christine Shand with its issue of October 12. This is one of the anemone-flowered forms sent out by Kelway & Son. The guard petals are of delicate flesh color, the centre petals being lemon white.

NEWS OF THE CLUBS AND SOCIETIES.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The annual meeting of the C. S. A. will be held on the first day of the annual show, Nov. 6th, at 4 p. m., in the rooms of the American Institute, New York City, and it is hoped that the members and the craft in general will avail themselves of the opportunity to be present at this meeting. A very interesting programme has been prepared. Mr. Wm. Duckham has kindly consented to read a paper on the Cultivation of the Chrysanthemum for Exhibition Purposes, and Mr. C. H. Totty one on Single Varieties, which should prove interesting. The exhibition promises to be the best in the history of the society, and, no doubt, the great show to be held in Chicago next fall will form an interesting topic for talk at this meeting.

Work of Committees.

Chicago, Oct. 26.—Virginia Poehlmann; white (Bonnafont type). Exhibited by Poehlmann Bros. Co., Morton Grove, Ills. Scored 89 points, commercial scale.

Chicago, Oct. 26.—Pacific Supreme; pink (Glory of Pacific type). Exhibited by Nathan Smith & Son, Adrian, Mich. Scored 87 points, commercial scale.

New York, Oct. 26.—No. 90; creamy white (Jap. reflexed). Exhibited by John N. May, Summit, N. J. Scored 74 points, commercial scale.

New York, Oct. 26.—No. 9; white (Jap. incurved). Exhibited by John Marshall, Newport, R. I. Scored 85 points, commercial scale.

Philadelphia, Oct. 26.—No. 66-5-06; white (Jap.). Exhibited by Nathan Smith & Son. Scored 81 points, commercial scale.

Philadelphia, Oct. 26.—Miss Frances P. D. Fell; orange yellow (Jap. incurved). Exhibited by H. B. Surman, Ft. Washington, Pa. Scored 87 points, commercial, and 85 points, exhibition, scale. DAVID FRASER, Sec'y.

TOLEDO FLORISTS' CLUB.

Election of officers brought a good many of the club members to the last meeting, the first respectable attendance which we have had in a long time. The old officers were re-elected by acclamation, but the office of treasurer and secretary, Mr. Peck, who resigned, was given to J. L. Schiller. It was quite a lively meeting, and it was decided to hold a chrysanthemum show on a day between the 10th and 20th of November. This is mainly to interest the public, and no prizes will be given. Outsiders will be asked to contribute and thus help to make the affair a success. W. W. Krueger and J. L. Schiller will have charge of the show. On November 1st a number of the members will join the Detroit Florists' Club, upon invitation, on their outing to Mt. Clemens.

NEW ORLEANS HORTICULTURAL SOCIETY.

Regular meeting of the above named society was held at the residence of President Chas. Eble on October 17. P. A. Chopin, on behalf of the committee on chrysanthemum meeting to be held during the month of November, reported that they had not been able to secure a suitable hall. They were granted further time.

A general discussion ensued on the prospects of chrysanthemum flowers for All Saints' Day, the 1st of November, and the consensus of opinion was that there would be sufficient for all purposes, although several growers had practically lost their entire crop through thrips.

The meeting then adjourned to the dining room, where a sumptuous repast was spread, and the members were waited upon by Mr. Eble's two sons and his niece, while his daughter regaled the members with choice selections on the piano. It was regretted by all that Mrs. Chas. Eble was not able to be present owing to illness. Appreciative speeches were made by several members.

C. R. PANTER, Sec.

CONNECTICUT HORTICULTURAL SOCIETY.

The regular meeting of above society was held in County Building, Hartford, on Oct. 25. Vice-President Huss occupied the chair. There was a large attendance of members. Mr. Huss exhibited new strains of streptocarpus and cosmos which, on account of the extraordinary size and substance of the flowers, created much interest and were awarded diplomas. Both are of English origin, and are distinct acquisitions, the cosmos especially being valuable in that, in addition to the greatly improved flowers, it comes into blooms several weeks earlier than the familiar type. Mr. Huss gave an interesting and instructive talk, describing the cultural methods he employed for streptocarpus and cosmos in order to get the best results, whether grown in the open borders or as pot plants. He received a hearty vote of thanks for his thoroughly practical address. The question box contained a number of pertinent queries, all of which were answered satisfactorily.

ALEX. CUMMING.

NEWPORT HORTICULTURAL SOCIETY.

A meeting of the Newport Horticultural Society was held October 22, President Butterton in the chair. Nine new members were admitted. Mr. MacLellan announced that Senator Wetmore had offered the use of a part of his lawn to the society, whereon a tent may be erected for the accommodation of a part or all of the exhibits when the society settles to hold an exhibition next year. The offer was appreciatively received with the understanding prevailing that in all likelihood there will be but one show next year—a big one and that on the grounds of Senator Wetmore. D. M.

THE NATIONAL FLOWER SHOW COMMITTEE.

It being impossible for me to write a second time to every member of the Committee of Fifty, individually, I take this means of informing them that the meeting of the committee will open promptly at 2.30 p. m. on Nov. 8, at the Auditorium Annex, Chicago.

WM. F. KASTING, Chairman.

CLUB AND SOCIETY NOTES.

Walter P. Stokes will give an informal talk on forcing of lily of the valley before the Florists' Club of Philadelphia on Tuesday, November 5

R. Vincent, Jr., & Sons Co., of White Marsh, Md., have promised an extensive display of hardy pompon chrysanthemums, under the personal supervision of R. Vincent, Jr., and T. A. Vincent, at the Boston chrysanthemum show, November 8th.

The Pacific Coast Horticultural Society and the State Floral Society combined in giving a complimentary dahlia show recently at San Francisco, at which Wm. Kettlewell, gardener for Geo. A. Fope, and H. Maclean, gardener for Mrs. W. H. Crocker, carried off all the first prizes. H. Maier, superintendent of the Stockdale Nurseries, exhibited a fine lot of cyclamens and Nephrolepis Whitmanii, for which he was awarded special prizes.

HELPLESSNESS OF CULTIVATED PLANTS.

We rarely realize how helpless man has rendered the plants he cultivates by the centuries of protection from their weed enemies that he has given them. An experiment that well illustrates this point was made on one of the Government farms some time ago. A field about one acre in extent upon which wheat had been grown for forty years in succession was not harvested but allowed to stand and shed its seeds as it would. The next year a fair crop of wheat came up, but the weeds were gaining the ascendancy, and by the fourth season all the wheat had disappeared from the field and the weeds held full sway. If man should suddenly disappear from the earth it is certain that his cultivated crops would soon follow him. And yet these very plants held their own against their competitors before man took them under his care. The reason they can no longer persist in the face of competition is not alone because they have grown weaker, but in a measure because the weeds have grown stronger. In protecting his crops man has constantly killed out the weak and least persistent weeds, and only those were left to perpetuate their kind that were able to elude man himself. One species, the self-heal (*Prunella vulgaris*), which ordinarily grows a foot or more high, has produced a variety so low that it is able to thrive on a closely mowed lawn. Darwin never considered the lawn-mower as one of the factors of evolution, but undoubtedly this Yankee invention has played its part in the great struggle.—American Botanist.

The Exhibition Season

RECENT SHOWS.

Royal Horticultural Society, London.

At the exhibition on October 15, Low & Co. showed fifty dishes of what may be called London apples from standard, pyramidal and cordon trees grown at their Enfield nursery, such as the old Tyler's Kernel, Potts' Seedling, Wealthy, Northern Greening, etc. They also had a striking bank of orchids, mostly hybrid cypripedes, as *C. x Olivia*, Lord Derby and others. Jas. Veitch & Son put up quite an exhibition of new nepenthes, some carrying three and four pitchers, which attracted considerable notice from visitors; also Begonia Agatha compacta, and a vigorous erect-habited kind, labelled Elatior, which will be a gain in this flower to florists. The exhibit was elegantly edged by small plants of *Selaginella amoena*. Other fine orchids were put up by J. Hudson (with Baron Leopold de Rothschild), Sander & Sons and others. Low & Co. again showed their new small-foliaged *Ampelopsis Lowii*, which, if it will only keep its close-growing character, will prove a formidable rival to the popular *A. Veitchii*. It seems to be intermediate between that and *A. sempervirens*. Named in honor of Mrs. Wilson, who shared the dangers and inconveniences of Mr. Wilson's North China tour, Veitch had a compact, free-fruited berberis of quite a new type, the berries not yet colored, and *Symphoricarpos mollis*—pendulous in habit and fruiting at the points of its slender shoots, the berries being larger and whiter than those of the type. Reuther's novelties were *Polygonum polypetalum*, with its elegant long, drooping spikes of deep carmine flowers, which are good for cutting, *Watsonia alba* and *Salvia azurea grandiflora*, which is quite hardy at Keston, as well as a complete collection of colchicums, including *speciosum rubrum* and *autumnale alba*. Chrysanthemums were sent by Jones, Lewisham, who had Moneymaker and Mrs. A. T. Miller, both A-1, and Mrs. Knox, which is certainly one of the best early golden Japs. Wells also had decorative chrysanthemums, Singles, Pompons and Japs, all in good form.

THOMAS BUNYARD.

A Pleasing Display of Chrysanthemums.

At the residence of H. C. Frick, Homewood avenue, Pittsburg, there is an exhibition of chrysanthemums, orchids, begonias and other flowering plants, of which Pittsburgers are justly proud. It is the custom here to make two special displays in the year, at Easter and at chrysanthemum time. The local newspapers give publicity to the fact that there is an exhibition open to the public at the Frick greenhouses, and hundreds of people take advantage of the privilege.

David Frazer, superintendent, known to readers of HORTICULTURE as secretary of the Chrysanthemum Society of America, has this year a better display than ever. Pittsburg is not an ideal place to



Pacific Supreme is intermediate in color between Glory of Pacific and Wm. Duckham, being a very delicate shade and yet sufficiently illuminated so that it may be allowed to fully develop without danger of the usual fading. Height, 3 1-2 feet; 6 inches in

grow chrysanthemums, yet in spite of the disadvantage under which he labors, he has arranged an exhibit of chrysanthemums which, even in more favorable sections of the country, would be considered highly creditable. All his plants are grown in pots and the foliage is clean and healthy and the flowers large and well finished.

It is worth while to mention that all the plants grown are exhibited; there are no "culls." Standard varieties are well represented and well grown. Amongst the newest varieties Brighthurst, a noble pink, is one of the best. Mlle. Ogez is very fine, but has an extremely long neck. The finest of all is the beautiful white Miss Helen Clay Frick, a sport from Wm. Duckham. It originated somewhere in Scotland, and is by far the best white grown here, although Mr. Frazer does not deny that it has received a little better treatment than the majority. Lady Roberts is a good single pink, an excellent variety for cut flower purposes.

The orchids are exceptionally fine. Amongst those in flower are a fine batch of *Cattleya labiata*, *Oncidium varicosum*, *Miltonia candida*, *Oncidium Forbesii*, *Dendrobium Phalaenop-*

diameter; cut Oct. 20th; foliage closely resembles Glory of Pacific, but freer in growth. This fine novelty scored 87 points and was consequently certificated at Chicago, October 26, being exhibited by Nathan Smith & Son.

sis and *Oncidium ornithorhynchum*. All are well grown and effectively arranged. Begonia, Gloire-de Lorraine and Turnford Hall. The former in baskets and pots is one of the main features of the exhibition.

A fine effect is obtained in one of the compartments by the feathery celosia and adiantums on a level stage. Other things used to advantage in quantity are *Acalypha hispida*, *Torenia Fournieri*, cyclamens, *Primula obconica* and *Cosmos sulphureus* var Klondyke. Everything that is attempted is grown well, and all who visit this charming display are enthusiastic in voting Mr. Frazer a master, not only in the art of culture, but also in artistic arrangement.

JAS. HUTCHINSON.

Menlo Park Horticultural Society.

The Menlo Park (Calif.) Horticultural Society held their fall exhibition in their mammoth tent in Menlo Park Oct. 18 and 19. Chrysanthemums were a special feature and were certainly of extra good quality. First prizes were awarded as follows: James L. Flood, gardener Geo. Nunn, for decorative plants, orchids, crotons, potgrown chrysanthemums, also several first and second prizes for cut

chrysanthemums. S. E. Slade, gardener Charles Ehrich, for collection of ferns and for specimen fern. Mrs. A. Taylor, gardener Francis G. Hutchinson, for collection of coleuses and tuberous begonias. J. Donohue, gardener J. A. Carter, for collection of rex begonias and 12 seedling dahlias. Geo. A. Pope, gardener Wm. Kettlewell, for dahlias. A. J. Marcus, H. Dicks gardener, for chrysanthemums. Mrs. W. H. Crocker, H. Maclean, gardener, took one chrysanthemum prize and three dahlia prizes. All the prizes awarded were for money, which was turned over by the Hopkinses, Floods, Donahues, Crockers, Taylors, Popes and other exhibitors to their gardeners.

Amongst the commercial growers, H. Goertzhain received several first and second prizes for chrysanthemums. M. Lynch was first for vase of pink chrysanthemums. S. Clack received first prize for a fine vase of Liberty roses. Kenneth Murray received four first prizes for carnations. F. Mills also received several first and second prizes for carnations.

S. Clack was manager of the show and Chas. Abraham of San Francisco, Geo. Walter of Ross Valley, and Thomas Wood of San Mateo, acted as judges.

Exhibition at Washington.

The annual Chrysanthemum Show by the Department of Agriculture began the 25th and will continue each day from 10 A. M. till 3 P. M. (except Sunday) until November 7th. This will give the public a breathing space before the show, which is to be given by the Washington Florists' Club on the 12th, 13th and 14th of November. The flowers of the present show are the finest ever displayed in Washington, comprising in all two hundred different varieties. A collection of single flowering varieties is one of the most attractive features of the show, one, the "Daisy," so closely resembling its namesake as to be almost indistinguishable. The "Mrs. Roosevelt" is a great favorite, being of an unusually fine form and rich color.

COMING SHOWS.

The following have been mentioned at length in preceding issues of HORTICULTURE:

New Haven County Horticultural Society, New Haven, Conn., Nov. 6-8. Walter Koella, 58 Bishop street, New Haven, secretary.

Chrysanthemum Society of America, American Institute, 19-21 West 44th St., New York City, Nov. 6-8. David Fraser, Homewood and Penn Ave., Pittsburg, Pa., secretary.

Nassau County Horticultural Society, Glen Cove, N. Y., Nov. 6-8. J. F. Johnston, secretary.

Horticultural Society of Chicago, Coliseum, Chicago, Nov. 6-12. E. A. Kanst, 5700 Cottage Grove Ave., secretary.

Tarrytown Horticultural Society, Tarrytown, N. Y., Nov. 6-8. E. W. Neubrand, secretary.

Massachusetts Horticultural Society, Horticultural Hall, Boston, Chrysanthemum show, Nov. 8-10. W. P. Rich, secretary.

Florists Club of Washington (D. C.), Nov. 12-14. Chas. McCauley, 18th and

BUMPER CROP MELONS.



The fields of musk melons, or cantaloupes, cover in a combined area many acres in the town of Irondequoit, N. Y. The yield from some of these fields during a favorable season is a source of considerable income to the gardeners, while other fields are almost a total failure, in so far as quality, at least, is concerned, the yield also being somewhat less.

This has been a fairly good year. A "bumper" crop has been raised, the stock has been of unusual size and flavor, and the price good. The blight has not been so noticeable this year. It has been so destructive in some past years that the prospects of a good crop are changed within a few days.

The blight on musk melons takes different forms of attack, and there are several names given to the disease. The most important are leaf-spot, downy mildew, leaf-mold and damping off. The fungus which causes the dis-

eases, produces angular black spots on the leaves, and elongated black spots with light colored centers on the petioles of the leaves and vines. When the petioles are attacked, the part affected gradually shrivels and that portion of the leaf and vine above wilts and dies. The small fruits are killed. Black spots appear on them, the small melons in some instances turning black and dropping off. When the fungus does not kill the small melons they do not develop on the side attacked by the fungus.

On the larger and more mature melons cavities of various sizes are formed, occasionally as much as two inches in diameter and nearly an inch deep. The cavities usually have a black border and are covered with gummy masses of pink spores that ooze through the rind. Beneath the cavities the rind is thickened and separated from the pulp.

H. R. PEACHEY.

Kearney Sts., Washington, D. C., secretary.

Horticultural Society of Buffalo, Buffalo, N. Y., Nov. 11-17. J. H. Tranter, P. O. Box 994, secretary.

St. Louis Horticultural Society, Grand and Park Aves., St. Louis, Mo., November 12-15.

Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Nov. 12-15. David Rust, secretary.

Montreal Gardeners' and Florists' Club, Chrysanthemum show, Nov. 13-14, Victoria Rifles Hall, Montreal, Que. W. H. Horobin, 283 Marquette St., secretary.

State Floral Society of Arkansas, Little Rock, Nov. 14-16. Chas. Vestal, secretary.

Annual flower show, Waco, Texas, Nov. 13-16. Capt. J. D. Shaw, President.

Worcester County Horticultural Society, Chrysanthemum show, Worcester, Mass., Nov. 14. A. A. Hixon, secretary.

Ontario Horticultural Exhibition, Massey Music Hall, Toronto, Ont.,

Nov. 12-16. H. B. Cowan, Parliament Building, Toronto, secretary.

Denison Civic Improvement League, Denison, Tex., Nov. 20-22. T. W. Larkin, secretary.

Maryland State Horticultural Society, Fifth Reg. Armory, Baltimore, Dec. 3-4. T. B. Symonds, College Park, Md., secretary.

There will be no chrysanthemum show, from the present indications at the Botanical Gardens at South Park, Buffalo, N. Y., this year. There will be a sort of exhibition with the public invited, the same this year as ever, though the usual gorgeous exhibition is off for the very good reason that there are not enough of the flowers to make a show. The smoke and gases which have been making life more and more miserable each year for the Botanical Gardens have done their fell work quite thoroughly this year and the chrysanthemums have been particularly unfortunate. In fact, according to Supt. Cowell, the Gardens will have to be removed or their attractiveness will soon be a thing of the past.

LIBRARY NOTES.

Any of the books mentioned in Mr. Payne's reviews can be supplied at publishers' price from the office of Horticulture.

The Small Town Garden, by H. M. Swanwick (Sherratt & Hughes, Manchester and London). This is a plain cloth-bound book without any great pretension to style, but has the merit of appealing to the townsman who has a love for gardening, in a useful and practical manner. The reader is given several comprehensive lists and tables of plants arranged with name, height, kind, period of flowering, description and short cultural directions which are easy for reference besides being in close compass. The sub-headings throughout the work are numerous and cover the whole area of garden requirements and operations for the town gardener.

A Garden in Venice by F. Eden. (Country Life, Lim'd, and George Newnes, London). Here we have a new and cheap edition of one of those high class and artistic volumes for which the Country Life Library is especially noted. The book is the author's record of his own garden in Venice and is beautifully printed in old style type and adorned with 21 illustrations. To anyone who has been in an Italian garden in Italy—for there are so-called Italian gardens elsewhere, this charming volume will be of special interest for it breathes both in the illustrations and the text the very spirit of the genuine article. Many of the pictures transport us back to days long ago when we too wandered through Italian gardens in that land where there are so many beautiful and interesting examples.

Select Carnations, Picotees and Pinks, by John Fraser, (MacLaren & Sons, London). Carnation growing has here in England assumed a considerable importance of late years or perhaps we might say revival, and as a result we have at the present moment three new books on the subject lying before us. The one by Mr. Fraser is perhaps the most voluminous and comprehensive for it runs into nearly 200 pages. The cultural matter is of essentially a practical and not a purely aesthetic manner, as we have seen in some of the recent gardening books. Descriptive lists are given and every phase of carnation culture appears to have been dealt with in a sensible and practical way.

C. HARMAN PAYNE.

PUBLICATIONS RECEIVED.

Number 8 of the Dahlia News, with articles relating to the National Dahlia Society of England, the German Dahlia Society and the sensational new dahlia, Charles Lanier. The membership of the New England Dahlia Society is now 200.

The extent of the popularity which the American type of carnation has already attained in England is revealed in the very practical little 132-page volume which has just reached us, under the title of "The Perpetual Flowering Carnation." The author is Montagu C. Allwood and the book is published by Hugh Low & Co., Bush Hill Park, England. The topics covered comprise: A Plea for the

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The price of the volume is two shillings and the American carnation grower who sends for a copy will not regret the investment.

The school children of several cities are now receiving instruction in the art of gardening. It is not at all likely that many of them will ever, in consequence of such instruction, become good gardeners, but it is likely that the efforts put forth in their behalf will be productive of much lasting benefit to the children and to the nation, not to speak of what it may mean in the years to come to horticulture in its broadest sense. Therefore, every possible encouragement should be given to those instrumental in inaugurating this commendable movement.

There is no reason to doubt the prediction that a bright future is in store for the dahlia as a thing of practical utility for florists, but, again, it is reasonable to suppose that the craze for huge collections, embracing all the varieties obtainable, good, bad and indifferent, is either dying slowly or already gone. The substantial basis upon which the permanent popularity of the dahlia will rest will be its usefulness within the bounds of a reasonable number of varieties of two or three types. The Cactus type has undoubtedly the greater fascination for the enthusiastic amateur, but it is doubtful if, as a type, it is of as much utility as either the Single or Decorative; or, in other words, can a florist get from one end of the season to the other as much and as good material for cut flower purposes out of the Cactus type as he can out of the Decorative or out of the Single?

AMERICAN PEONY SOCIETY.

To the Peony Growers of the United States.

As Chairman of the committee on peony diseases, I wish to bring before your attention some lines of work which this committee proposes to undertake during the coming year, and to ask your hearty co-operation in the same.

It is proposed first, to bring together all the literature bearing upon the subject of peony diseases. This, the Chairman of the committee expects to complete during the coming year and will present a paper on the subject before the next annual meeting of the society. In connection with this work it is especially desired that all persons interested in peony growing will send to the Chairman references to any literature on the subject of peony troubles of which they may know.

Second, we will endeavor to get together all of the observations and experience of peony growers with diseases of the plant. This will include any experiences they have had with diseases, methods of treatment and success or failure of the same. On this point it will be necessary to appeal directly to the grower, and it is hoped that everyone interested in the matter will write out briefly and clearly anything they may have to offer and send it to us.

Third, we shall endeavor to get together specimens of the different diseases of peonies for the purpose of studying them carefully and making experiments to determine their cause and methods of their treatment. It is planned to continue this work for a number of years in order that we may arrive at some definite conclusions in regard to the matter. Growers are urged to send in any diseased plants whenever they find them, transportation prepaid. In return for which the Chairman of your committee promises to give whatever information he can in regard to the trouble and to prepare from time to time short articles on some common and destructive disease, that will appear for publication in the proper magazine, etc. These specimens should be carefully wrapped in a box or stout package and mailed directly to our address.

Signed: H. H. WHETZEL,
N. Y. State College of Agriculture,
Ithaca, N. Y.

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LIST OF PATENTS.

Issued October 22, 1907.

\$68,789. Fertilizer Spreader. John O. Linden, Chicago, Ill., assignor to International Harvester Co., a corporation of New Jersey.

\$68,861. Tract Equalizer. Ole Holm, Madison, Minn.

\$69,078. Planter. James T. Gantt, Macon, Ga.

A WARD FIELD OF LILIUM LONGIFLORUM GIGANTEUM IN JAPAN.

**PLANT IMPORTS.**

There were entered at the port of New York during the week of October 23 to October 29, 1907, inclusive, the following plants, etc.:

Via Rotterdam: John Dunn, Jr., 3 cs. plants, 7 tubs do.; H. F. Darrow, 31 cs. do.; Wm. Elliott & Sons, 3 cs. do.; J. W. Hampton, Jr. & Co., 3 cs. roots; McHutchison & Co., 31 cs. plants; Maltus & Ware, 163 cs. plants, 2 cs. flower roots, 1 bbl. bulbs, 8 cs. do., 17 cs. trees and shrubs; F. Ouwerkerk, 22 cs. trees; T. H. Petry & Co., 15 cs. plants; T. C. Pollock, 17 cs. do.; Julius Roehrs, 3 cs. do.; J. M. Thorburn & Co., 5 cs. do.; Vaughan's Seed Store, 2 cs. trees, 4 cs. bulbs; Sundry Forwarders, 47 cs. plants, 21 cs. roots, 3 cs. bulbs.

Via Antwerp: H. H. Berger & Co., 5 cs. plants; H. F. Darrow, 47 cs. do.; Wm. Elliott & Sons, 1 cs. do.; W. Hagemann & Co., 75 cs. do.; Hussa & Co., 8 cs. do.; 154 tubs laurel trees, 3 pgs. empty tubs; Kraemer & Foster, 24 tubs laurel trees; McHutchison & Co., 47 cs. plants, 30 tubs laurel tree; Maltus & Ware, 285 cs. plants, 4 tubs laurel trees; R. F. Lang, 31 cs. plants, Chas. F. Meyer, 91 cs. do., 2 tubs laurel trees; August Rolker & Sons, 49 cs. plants; Ter Kuile, 24 cs. do.; Vaughan's Seed Store, 31 cs. do.; To Order, 3 cs. do.; Sundry Forwarders, 156 cs. do.

Via Southampton: O. G. Hempstead & Son, 3 cs. plants, 35 cs. bulbs; Maltus & Ware, 5 cs. plants; O. J. Smith, 1 cs. do.; Vaughan's Seed Store, 8 crates plants.

Via Hull: H. Bischoff, 33 cs. plants.
From Germany: A. Heilander & Co., 5 cs. plants; August Rolker & Sons, 16 cs. do.; Forwarders, 9 cs. do.

CATALOGUES RECEIVED.

John Lewis Childs, Floral Park, N. Y.—Trade price-list of gladioli, lilies, irises and other bulbs and roots.

T. V. Munson & Co., Denison, Texas. "The Munson Nurseries and Tree Planters' Hand-Book for 1907-1908." Grapes and strawberries fill a large

place in this excellent list of fruit trees and plants.

M. H. Harman Company, Geneva, N. Y. General Catalogue of Fruit and Ornamental Trees, Evergreens, Shrubs, Vines and Roses. A McFarland production; hence an ornament as well as hand-book of sterling value.

Sluis & Groot, Enkhuizen, Holland. Advance Price-List of Vegetable, Flower and Agricultural Seeds. A wholesale list of much interest, covering the main varieties of standard seeds handled by the wholesale trade.

"Peter's Plants" is a handsome descriptive catalogue of ornamental trees and shrubs and border plants, issued by the Peter's Nursery Company, Knoxville, Tenn. This is a good example of the high class modern catalogue, embellished with artistic illustrations calculated to whet the appetites of anyone interested in sylvan beauty, and the cover is a work of art.

Henry F. Michell Co., Philadelphia. Book of Bulbs, 1907. Adorned with a big tree paeony in colors on the front cover and a flawless golf course on the back cover and filled with descriptions and prices of the best proven garden varieties, this catalogue looks like a business-getter and we hope it will so prove. Michell's Wholesale Price-List of Bulbs comes by same mail. Everything finds a place in this up-to-date trade list. Send for it.

ST. DAVIDS Late-Dug Harrissii

Guaranteed pure bulbs. No longiflorum adulteration

SIZE 5 to 7, 400 in a Case, \$15 00 Case

Wm. Elliott & Sons
201 Fulton Street
NEW YORK

RALPH M. WARD & COMPANY

12 WEST BROADWAY, NEW YORK

OFFER DIRECT IMPORTATIONS

JAPAN LILIUM LONGIFLORUM.....	7-9 inch,	300 per case
JAPAN LILIUM MULTIFLORUM.....	6-8 inch,	400 "
" " " " " " " " " " " "	7-9 "	300 "
" " " " " " " " " " " "	10-11 "	150 "
" " " " " " " " " " " "	11-12 "	80 and 120 per case
" " " " " " " " " " " "	11-13 "	100 "
" " " " " " " " " " " "	12-13 "	70 "
JAPAN LILIUM GIGANTEUM.....	7-9 inch,	300 and 280 per case
" " " " " " " " " " " "	9-10 inch,	200 per case
" " " " " " " " " " " "	10-11 "	140 "
JAPAN LILIUM AURATUM.....	10-11 "	to arrive soon
SPECIOSUM MAGNIFICUM.....	10-11 "	"
" " " " " " " " " " " "	11-12 "	"

BAMBOO CANES, 5-6 feet long, fine, strong and well packed AT REASONABLE PRICES

We also have a limited surplus of French Roman Hyacinths, 12-15 cm; Paper White Grandiflora 12-13 cm and 13-up cm; Lilium Harrisii 5-7 and 7-9 in.; Chinese Sacred Lilies; Cycas Stems; Raffia, etc.

POSITIVELY NO ORDERS FILLED FOR LESS THAN CASE LOTS
THE QUALITY OF OUR JAPAN LILIES IS UNSURPASSED

VINCA SEED

Mr. Florist, do you know the **right** time to sow Vinca seed is **right** now.

	Trade pkt.	Per oz.
Vinca Alba, white, with rose centre.....	\$0 15	\$0 50
" " Pura, pure white.....	.15	.50
" Rosea, pink.....	.15	.50
" Mixed.....	.10	.40

BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation. **BODDINGTON'S CHRISTMAS WHITE.** A grand companion to Christmas Pink.

10c per oz.; 1/4 lb. 30c; 1/2 lb. 50c; 1 lb. 75c.

Our Fall Bulb Catalogue now ready. If you have not already secured one, send a postcard today. It contains a full line of bulbs and flower seeds.

ARTHUR T. BODDINGTON, 342 West 14th St., N.Y. City

BAMBOO CANES

TOUGH AND STRONG
6 ft. long — \$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO., - 50 Barclay St., New York

Best Quality Fall Bulbs

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent upon request. Catalogues now ready.

VICK'S SUPERB PANSY SEED

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 75c. 1-4 oz. \$1.50 Ounce \$5.00

JAMES VICK'S SONS, Rochester, N. Y.

CYCLAMEN

Farquhar's Giant Strain

Unsurpassed for size of flowers.

Giant Crimson Giant Pink
Giant White Finest Mixed
Giant Excelsior, White with Claret Base

100 seeds, \$1 25; 1000 seeds, \$10.00.

R. & J. FARQUHAR & CO.
6 & 7 So. Market St., Boston, Mass.

C. C. MORSE & CO.

Address all communications to our permanent address
48 to 56 Jackson St., San Francisco, Cal.

The Largest Seed Growers in the United States

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit

BRASLAN SEED GROWERS CO.

GROWERS FOR THE
WHOLESALE TRADE ONLY

SAN JOSE, - - CALIFORNIA

CAULIFLOWERS

CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY CO.
32 & 33 So. Market St., BOSTON

HIGH GRADE French and Dutch BULBS

For prompt shipment, our Fall Bulbs Catalogue sent on request.

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

BY WIRELESS FROM ROBERT CRAIG.

Mr. Craig acknowledges that *Ficus pandurata* is the most profitable plant specialty he ever handled. He attributes the failure of some growers with this plant to the fact that they have tried to propagate from single eyes, the result being in all cases spindling, feeble specimens. Propagation by mossing the tops of the plants he finds to be the only successful method. As showing the wonderful tenacity of *Ficus pandurata* and its value in decorative work, one specimen may be cited in evidence. It is over 10 feet in height and carries 56 enormous leaves, never having lost a leaf, and all this in a 12-inch tub.

Among the most sensational things seen at the establishment of the Robert Craig Company are a number of crotons of remarkable brilliancy of coloring, raised by Edwin Lonsdale. A fact worthy of note is that these splendid varieties, varying greatly as they do in form of leaf and markings, all came from one seed pod. One of the handsomest has been named Edwin Lonsdale, and it gives promise of being a popular plant for holiday basket arrangements.

"Light-pink Lorraine," the form of *Begonia Gloire de Lorraine* which originated with Edwin Lonsdale, is much more substantial than the ordinary type, and on this account is preferred by many for dwelling house use as well as for exhibition purposes, its ability to withstand the conditions of the exhibition hall for several days being a good point in its favor. Of the more recent begonia hybrids *Agatha* promises well, especially for early blooming.

The *Amerpohli* fern fronds are being used extensively in Philadelphia in floral decorative work and bid fair to give asparagus a tussle for pre-eminence in this respect. This fern planted in hanging log baskets makes a lovely object. *Amerpohlii* as a spreading form and *Todaecoides* as an upright form will probably displace all the older plumose forms of *Nephrolepis*, excepting only the *Whitmanii*.

Mr. Craig's selection as the best of the pompon chrysanthemums for cut spray purposes comprises *Lula* for white and *Quinola* for yellow. *Kitty Bourne* leads in the yellow singles; it bears a profusion of daisy-like flowers and was "all the go" in London last season.

Mr. Craig has taken up *Adiantum hybridum* in preference to *Croweanum* for cut frond purposes. He asserts that it is more productive than that popular variety.

Pere Charon is a dracaena which, when it becomes more plentiful and is more widely distributed, will leave no room for the old terminalis.

CROMWELL NOTES.

In a recent conversation with A. N. Pierson of Cromwell, Conn., we learned from that most astute and successful wholesale grower that he has 25,000 plants of Killarney this season. This with *Richmond*, *Bride*, *Bridesmaid* and *Beauty* constitute the great-

PHOENIX ROEBELINI.



Phoenix Roebelini, the character of which is so well illustrated at the head of this column, needs no further commendation than the picture discloses as to its graceful habit and usefulness as a decorative plant. Its

scarcity heretofore has been its only drawback but seeds are now offered at reasonable prices and no florist needs to be without a good stock of this elegant representative of the palm family, which is at all times graceful, be the size large or small.

er part of his rose stock, although there are some *Kaiserins* and *Ivorys*, the latter being grafted plants now in the seventh year and apparently as productive as ever, and the former are now about to give way to lilies, which have been started in pots in frames. The *Beauties* are on solid beds without drainage, yet are in robust health and productiveness, and the *Richmonds* are in their second year, with the cane tied down. *Cromwell* is a good place to visit in search of practical and profitable processes.

The only glass added this year to this extensive establishment is one house, 40 x 430, which is now full of chrysanthemums. Mr. Pierson is much attached to *Early Snow* as a first crop white; its flower and foliage are both excellent. *Rosiere* is the favorite pink early and *Monrovia* the best yellow. For a crop to follow *Monrovia* and precede *Col. Appleton* *Zimmer's Yellow* is grown. Mr. Pierson's plan is to set two plants together in each case and allow each to bear two blooms. Among the carnations, which are a leading specialty in Cromwell, *Winsor* takes the lead in beauty and promise at the present time. The selection in scarlet has been cut down to two varieties—*Victory* and *Beacon*.

Gardenias in bench are in splendid luxuriance and a steady crop of flowers is being cut, the demand far exceeding the supply. A little nitrate of soda is applied with beneficial results whenever the foliage shows any inclination to turn yellow. Plants now

in second year in bench appear first-class and hold their buds even better than those grown in pots.

PLANT GROWERS ORGANIZE.

The plant growers of New York and New Jersey and surrounding vicinity, having met with circumstances which made necessary some means of procuring uniformity and certainty in the customs and usages in their trade and of obtaining information as to the standing of the dealers connected with their trade, have organized and incorporated under the name of the New York and New Jersey Association of Plant Growers.

Among the objects for which the corporation was formed are the fostering of the trade and the interests of its members, to obtain and diffuse accurate and reliable information as to the pot-plant growing and as to the standing of merchants and dealers in the general horticultural trade, to procure uniformity and certainty in the customs and usages in the trade, to protect its members and customers against unscrupulous dealers and to promote a more enlarged and friendly intercourse between plant growers and horticulturists generally.

The Association has been very successful in the beginning of its career, and has so greatly increased its membership that it now includes almost every grower within its jurisdiction. New York and New Jersey Association of Plant Growers.

W. H. SIEBRECHT, JR., Secretary.

Dreer Specials in Ferns

PTERIS WILSONI We feel very enthusiastic over this fern; it is not only the most graceful, but also one of the hardest of the crested forms of Pteris, useful in fern dishes as well as for growing on into specimen plants in 6-inch pans; in this size it appeals to every buyer and meets with ready sales. We have a fine lot of 6-inch pans, \$4.50 per dozen; \$35.00 per 100; 3-inch pots, \$6.00 per 100.

Adiantum Farleyense

A fine lot of 6-inch pots now ready, \$1.00 each.

Adiantum Rhodophyllum

The miniature Farleyense, as it is sometimes called, very fine plants,

3-inch pots, \$10.00 per 100.

Adiantum Macrophyllum

The bronzy red or almost crimson foliage of this variety during the Fall months appeals to all. This is the first time we have been able to offer it in quantity and at a popular price; fine 3-inch pots, \$15.00 per 100.

Adiantum Croweanum

We offer a fine lot of this, the most useful and profitable of all the Maidenhair Ferns for cutting; fine 3-inch pot plants, \$2.00 per dozen; \$15.00 per 100. \$140.00 per 1000.

Nephrolepis Amerpohlii

The Philadelphia Lace Fern—This is the latest addition to the Ostrich Plume type and is certain to prove a welcome and popular variety, holding for delicacy and gracefulness the same position among the Nephrolepis that Adiantum Gracillimum does among the Maidenhair Ferns. The pinnae are so finely divided that it reminds one of a piece of fine lace; the fronds are broad and of a depth which gives them a cushion-like appearance. It forms a beautiful specimen and is admired by everyone who sees it. 50c. each; \$3.50 per dozen; \$25.00 per 100; \$200.00 per 1000.

Nephrolepis Todeaoides

Todea, or Flimsy Fern-Like Nephrolepis—This is an English introduction that has received a first-class certificate both from the Royal Horticultural Society and from the Royal Botanic Society of London, and is likely to become a most important commercial variety. While in a general way it reminds one of an exceptionally well-grown plant of N. Elegantiissima, it is entirely distinct from this and all others, in its strong yet compact growth and its bold heavy foliage, which is distinctly tripinnate or three times divided. Specimen plants which we now have growing are admired by everyone and we have great faith in its future. 4-inch pots, ready Oct. 1st, 50c. each; \$5.00 per dozen; \$40.00 per 100; 6-inch pots, ready now, fine plants, \$1.00 each.

A fine lot of Ferns in 3-inch pots, assorted varieties for Fern dish work. \$6.00 per 100, \$50.00 per 1000.

Asparagus Plumosus Nanus

per doz., \$6.00 per 100.

2½ in. pots, 60c. per doz., \$4.00 per 100; 3 in. pots, 85c.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

NEWS NOTES.

S. Burdette Reed, of Bound Brook, is now connected with W. L. Andrews' greenhouse, Elmwood, Conn.

The H. J. Heinz conservatories, Pittsburg, Pa., were opened to the public on October 28 for the winter.

Robert Newsham and Louis Buchler have taken positions with the Metairie Ridge Nursery Co., New Orleans, La.

Peter Murray, of Fairhaven, Mass., has vacated the Winsor greenhouses and is now located in his new houses on Washington street and Temple

Henry A. Bester and William Bester of Hagerstown, and R. Vincent, Jr., & Son of White Marsh, Md., had notable exhibits at the Hagerstown Fair on October 16.

A. Leuthy & Co., of Roslindale, Mass., have just received one of the largest shipments of azaleas and other decorative plants, that has ever come into the port of Boston.

Ernest C. Rees has purchased the greenhouse of Oliver Croucher, Hudson, Mass., and will continue the business in connection with his present houses on the Gates Pond road.

L. Pilivet, proprietor of the Neuchatel Nursery, San Francisco, has resumed business at his old place at Burlingame, which he abandoned immediately after the earthquake.

Auction sales of foliage plants have come to a close and auctioneer W. J.

Elliott reports the most successful fall season in several years. Boxwood, conifers, rhododendrons, Azalea mollis, etc., are now in order at the sign of the red flag in Fulton St., New York.

Prof. or Stone, Rhode Island State Commissioner for the suppression of the gipsy moth and other injurious insect pests, is now enlisting the services of Newport gardeners by suggestion and otherwise to aid him in formulating plans for the complete eradication of the San Jose scale. This scale has already worked great damage to fruit and other trees in this city.



PTERIS WILSONI

For a complete list of seasonable Bulbs, Plants and Seeds, see our new Wholesale List.

THOUSANDS OF ORCHIDS

In sheath, bud and flower.

Write for particulars and catalogue.

JULIUS ROEHRS COMPANY,
Rutherford, New Jersey.

ORCHIDS

Arrived in perfect condition *Cattleya Mossiae*, also *C. Schroderae*, *Laelia anceps*, *Epidendrum Vittelinum*, etc., etc. Write for prices.

LAGER & HURRELL, Summit, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

... ORCHIDS ...

Just to hand, *C. Trianae*, *C. labiata*, *C. Mossiae*, *C. Intermedia*, *C. Schroderae*, *C. Speciosissima*, *C. Citrina*, *C. Gaskelliana*, *Laelia anceps*, *L. Albida*, *L. majalis*, *L. Autumnalis*, *Epidendrum Vittelinum* majus, *E. Cooperianum*, *Oncidium Crispum*, *O. Varicosum*, *O. Cavendishianum*, *O. Luridum*, *Odontoglossum*, *To arrive in a short time*, *C. Dowiana*, *C. Aurea*, *C. Warnerii*, *Miltosia Vexillaria*.

CARRILLO & BALDWIN SECAUCUS, N. J.

Just Arrived in First Class Condition

C. Trianae, *C. Percivaliana*, *C. Speciosissima*, *C. Gaskelliana*, *Oncidium Kramerianum*.

WRITE FOR PRICES

ORDONEZ BROS.

P.O. Box 105.

MADISON, N. J.

Lady Gay

THE FAMOUS
RAMBLER
ROSE

2¼ in. Pots, \$10.00 per 100

3½ in. Pots, 12.50 per 100

Ready to Pot On or Line Out in the Field

Thomas Roland
NAHANT, MASS.

ORCHIDS

Just arrived, in fine condition,

Cattleya Trianae (new district).

Oncidium Varicosum Rogersii.

Write for prices.

JOSEPH A. MANDA, 191 Valley Road,
WEST ORANGE, N. J.

KORAL SCRIPT LETTERS
AND EMBLEMS
ONCE USED ALWAYS USED
Forsale by all first class supply houses. Made by
KORAL MFG. CO.
26 Hawley St., Boston

HEADQUARTERS
FOR

**HARDY FERNS, GALAX, MOSS, LAUREL,
PRINCESS PINE, BOXWOOD, FESTOONING, ETC.**

Best Ferns in Market \$1.25 per 1000.

See Our Cut Flower Ad.

HENRY M. ROBINSON & CO., FLORISTS' SUPPLIES 15 Province St., and 9 Chapman Pl., BOSTON

THE WILSON ESTABLISHMENT AT BROOKLYN, N. Y.



Our illustration, reproduced from a recent photograph taken by Fred. Lautenschlager, shows the establishment of one of Brooklyn's most progressive retail florists, Robert G. Wilson. This is the old Shannon place,

on Greene avenue, Brooklyn, N. Y., which Mr. Wilson has remodelled, and is running as an adjunct to his retail store on Fulton street. It is a good example of a compact establishment within the closely-built precinct of a great metropolis.

NEWS NOTES.

Harry Walthers has entered the employ of McLean, the florist, of North Phelps Street, Youngstown, Ohio.

The first good mignonette of the season is coming to the New York market from A. Sauter, of Nyack, N. Y.

Peter Gerlaid, of 57 W. Twenty-first street, New York, nearly lost his life last week, trying to stop a runaway team. He is very badly bruised.

The firm of Spaulding & Hodgson, florists, of Newport and New York, has been joined with A. Warren Spaulding and Charles F. Hodgson as partners.

Peter Brown, a retail florist, has rented a part of the floor space from Perkins & Nelson, wholesale florists, at 55 W. Twenty-sixth street, New York.

The stock of Mrs. Mary Fisher, florist, Worcester, Mass., was considerably damaged by water and smoke in a recent fire in the block in which her store is located.

The plants, fixtures and practically all the other movable property of the Hodgson firm at Newport, R. I., will be sold at auction November 1, for the benefit of the firm's creditors.

Chas. Stappenbeck, 1207 Polk St., San Francisco, is moving into his new store, which is built on the same place

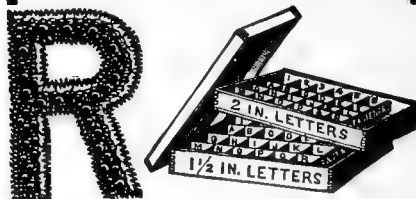
where he was located before the fire. It is said to be the handsomest and most up-to-date store in San Francisco.

S. N. Peck, of Toledo, O., intends to sell his retail place on Broadway, on account of the sickness of his wife, who has so long attended to his interest there. He will thereafter confine himself to his new place and grow carnations exclusively.

On Tuesday evening, October 29, H. Robinson & Co. celebrated the first anniversary of their entry into the wholesale cut flower business by a reception to the trade at their place of business in Province street, Boston. A lavish entertainment of music and refreshments was provided throughout the evening which was enjoyed by nearly two hundred growers and dealers. The store was handsomely decorated with laurel festooning and boxwood garlands.

Reed & Keller, New York, have just issued their new catalogue and copies may now be had on application. It is a 180-page book with thick, flexible covers, illustrated with hundreds of high grade half-tones of florists' supplies in great variety. It is a superb production, highly creditable to this well-known and enterprising firm. With a few exceptions, all the goods listed are of American manufacture.

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

BOXES BOXES BOXES LIGHT WOOD CUT FLOWER BOXES

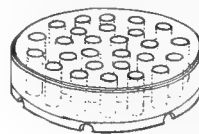
Sizes in Stock

	per 100
3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

GETMORE BOX FACTORY, Incorporated,
BELLEVILLE, ALA.

The "Japana" Cut Flower Holder



A handy article for florists. Sells to the trade on sight. Made of glass in three sizes.

The "Anglais" Table Decoration, something entirely new, long needed. The florist and housewife will appreciate this article, as it simplifies the art of table decorating.

Ask for catalog.

M. V. CARNSEY, Dept. N,
130 Waiola Ave., La Grange, Ill.



TIME IS MONEY

Save 1/2 the time greening your designs by using

FLORISTS' GREENING PINS

20c per lb., and you get from 1000 to 1100 to the lb. Ten lbs. or over, 15c per lb. Write for prices on large quantities.

WM. SCHLATTER & SON, Springfield, Mass.



American Flower and Tree Tub.

No.	Top.	Deep	Price
1	13 1/2	12	\$1.00
2	14 1/2	14	1.25
3	16	16	1.50
4	19	18	2.00
5	21	20	3.00
6	25	22	4.00
7	25 1/4	24	5.50

The American Woodware Mfg. Co
TOLEDO, OHIO

In ordering goods please add, "I saw it in HORTICULTURE."

PERSONAL.

Visitors in Boston: Julius Roehrs, Jr., and wife, Rutherford, N. J.

A. Emerich, representing Vilmorin & Co., Paris, France, was in Boston last week.

Visitors in New York: Henry Barton, Westfield, Mass.; Thomas Murray, Tuxedo, N. Y.

Visitors in Detroit: Paul Berkowitz, of H. Bayersdorfer & Co., and S. S. Skidelsky, Philadelphia.

James T. Silman, of Waltham, Mass., returned on October 25 from a four months' trip to the old world.

Arthur Griffin, who has been in England for a month or more, is now on his way home to Newport, after a most enjoyable sojourn on the other side of the water.

W. F. Sheridan, who underwent a serious operation at the hospital, made a brief appearance at his place of business in New York last Saturday, the first time in six weeks.

P. Ouwkerk of Jersey City, N. J., returned last week on the New Amsterdam, after a three months' business and pleasure trip through Holland, Switzerland and Germany. He speaks very highly of the horticultural decorations of the hotels and other public resorts at the watering places in Switzerland as being far ahead of those in America.

NEW RETAIL FLOWER STORES.

Otto Kuehnel & Son, Chicago, Ill.
Weiss & Pannebecker, Los Angeles, Calif.

Charles Heyme, So. Halsted St., Chicago, Ill.

Miss Sawyer, 2618 W. Madison St., Chicago, Ill.

Connelly-Crouch Co., King St., Charleston, S. C.

James A. Hawkins, 2024 Market St., Galveston, Texas.

The new store at 509 Madison avenue, New York, has been opened by E. L. Lang, and not by Theodore Lang, as previously reported.

A. WARENDORFF,

1193 Broadway,
NEW YORK.

Send your orders to the King of Floral Artists.

Flower Deliveries

In Brooklyn and other Long Island Points New York City New Jersey etc. At Theatres, Hotels, Steamers or Residences.

WILSON

Fulton St. and Greene Ave., Brooklyn, N.Y.

Theodore Miller
FLORIST

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4832 Delmar Boul. ST. LOUIS, MO.

ATLANTA FLORAL CO.

41 Peachtree Street, ATLANTA GEORGIA.

JOHN BREITMEYER'S
SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada

P. J. HAUSWIRTH

Is now permanently
located at

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Your orders for flower or plant delivery in Eastern New England to

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Fine Design Work a Specialty.

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Taking orders for delivery in
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Special Attention to Theatre and Steamer Orders, and reliable deliveries guaranteed.

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Deliver orders from any part of the country to
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Send flower orders for delivery in
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Cut Flowers of BEST QUALITY in season delivered promptly to any address.

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Strings of Asparagus Plumosa, finest in the country, \$1.00 each.

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AMERICAN BEAUTY and all other
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LILY OF THE VALLEY, CARNATIONS
WELCH BROS., 226 Devonshire St., Boston, Mass.

WHOLESALE FLOWER MARKETS

	CHICAGO			TWIN CITIES			PHILA.			BOSTON		
	Oct. 2)			Oct. 12			Oct. 28			Oct. 31		
ROSES												
Am. Beauty, Fancy and Special...	35.00	to	40.00	.....	to	35.00	20.00	to	25.00	20.00	to	25.00
"Extra	20.00	to	30.00	.....	to	25.00	10.00	to	15.00	15.00	to	20.00
" No. 1.....	10.00	to	15.00	.....	to	20.00	8.00	to	10.00	(2.00	to	15.00
" Lower grades.....	6.00	to	8.00	.....	to	15.00	6.00	to	8.00	4.00	to	8.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00	5.00	to	8.00
" Low gr.	4.00	to	5.00	2.00	to	6.00	3.00	to	4.00	3.00	to	4.00
Liberty, Richmond, Chat-nay F&S	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00	4.00	to	8.00
" Lower grades.....	4.00	to	5.00	4.00	to	6.00	3.00	to	5.00	1.00	to	2.00
Killarney, Wellesley, Fan. & Sp...	6.00	to	8.00	8.00	to	10.00	4.00	to	8.00	6.00	to	8.00
" Lower grades	4.00	to	5.00	5.00	to	6.00	3.00	to	5.00	2.00	to	4.00
CARNATIONS												
Fancy and Novelties.....	3.00	to	4.00	2.00	to	4.00	3.00	to	4.00	2.00	to	2.50
Ordinary.....	1.00	to	2.00	1.50	to	2.00	1.50	to	2.00	1.00	to	2.00
MISCELLANEOUS												
Violets .....	.75	to	1.50	.50	to	.75	.75	to	1.00	.50	to	.60
Cattleyas.....	50.00	to	60.00	35.00	to	60.00	10.00	to	50.00	.....	to	50.00
Lilies.....	12.50	to	16.00	12.50	to	17.00	15.00	to	20.00	10.00	to	12.50
Lily of the Valley.....	3.00	to	5.00	3.00	to	5.00	2.00	to	4.00	2.00	to	4.00
Gladioli .....	.....	to	.....	1.00	to	2.00	3.00	to	6.00	2.00	to	4.00
Chrysanthemums, Fancy.....	25.00	to	30.00	20.00	to	35.00	20.00	to	25.00	12.00	to	18.00
" Ordinary.....	6.00	to	15.00	8.00	to	12.00	8.00	to	12.00	4.00	to	8.00
Adiantum .....	.75	to	1.50	.75	to	1.00	.....	to	1.50	.50	to	1.50
Smilax	12.00	to	18.00	12.50	to	15.00	12.50	to	15.00	8.00	to	12.00
Asparagus Plumosus, strings.....	35.00	to	40.00	50.00	to	60.00	to	50.00	to	50.00
" " & Spren. (100 bchs.)	35.00	to	55.00	25.00	to	35.00	25.00	to	50.00	20.00	to	50.00

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1221 Filbert St., PHILADELPHIA

From 40 to 60 Growers

**We can care for your cutflower wants to
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E. F. WINTERSON CO.

45-47-49 WABASH AVE.. - - CHICAGO

Grow and Ship the Finest

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Without a rival in knowledge of the requirements of the trade and the ability to supply them. Our New Illustrated Catalogue, recognized as a work of art unprecedented in its line for variety, novelty and completeness, tells the story fully, and if you have not yet sent for it, do so now.

'TIS FREE TO EVERYBODY IN THE TRADE

H. BAYERSDORFER & CO., 1129 Arch St., Philadelphia, Pa.

Flower Market Reports.

BOSTON

Reflecting in some degree the atmosphere about the retail florists, whose customers are in a subdued frame of mind as a result of the recent financial strain, the wholesale market shows a decided downward tendency. This condition cannot fairly be attributed to the influx of chrysanthemums thus far although their effect on their products may be apparent later. Chrysanthemums themselves are not doing as well in proportion to the general trade as they did at the same season last year. Roses are greatly improved in quality, all varieties being seen in high grade but a good proportion of the receipts must look to the street fakir for consolation in the present stagnation. Colored carnations hang fire also, but the white ones find a fairly responsive market; there are enough of the latter, however, for all needs. Lily of the valley and violets are decidedly on the quiet list.

Trade opened only fair and remained rather quiet throughout the week.

The supply has been somewhat heavy, especially in the chrysanthemum line. Fancies were not too plentiful but a good lot of short and ordinary stock filled the market and prices were at low ebb. The last cutting of Monrovia, Polly Rose and a few other varieties were had and only of poor quality and many were carried along for the bargain seeker. A few of the late varieties are coming in and Duckham is leader in pink, Mrs. Weeks in white and Appleton in yellow, all of which were sold readily. Tea roses were in good supply, also Beauties but demand light. Carnations are increasing in quantity and find ready sale. Other stock is in good supply.

INDIANAPOLIS

Trade last week, though at no time rushing, could be classed as fair to good throughout. Every line seemed to share in a fairly active call. Out-door stock has been all through for about two weeks, but some good gladioli are being shipped in from the South. Chrysanthemums are coming in in large quantities, though, perhaps, not sufficient to call it a glut. The impression in general is that they are not bringing the prices they did a year ago. So far, they have not cut in on the sale of roses and carnations to the usual extent, as fancy Beauties are still in good demand and supply, while Teas are holding their own. Lily of the valley is too abundant for the demand and is not bringing top notch prices. Violets are improving daily, but do not clean up well. Cattleyas are seen everywhere. The usual quantity and prices prevail in green goods.

NEWPORT

We are now experiencing those conditions inseparable from the departure of the great mass of summer residents to their winter homes in the large cities where no doubt their presence will have a directly opposite effect on business, or will after the financial goblins now hovering around have vanished. It is surprising the effect such a scare as is here referred to has had no business even in a place like

NIESSEN This name represents satisfaction to the customer whenever flowers are wanted.

PHILADELPHIA The leading center of the cut flower interests of the country—where the best can always be got—if it can be got anywhere.

THIS WEEK We invite you especially to try us on Chrysanthemums, Beauties and Richmond.

Leo Niessen Co. 1209 Arch St. Philadelphia

Open from 7 a. m. to 8 p. m.

Newport after the greater number of millionaires have gone. It is very fortunate that a greater panic was averted otherwise the horticultural interests of this city would indeed suffer during the coming year if not before.

NEW YORK

The situation in the cut flower market here at present is very unsettled. Recent financial furries have unfavorably affected the trade of some dealers while others state that business is unusually good for the season. The wholesale markets maintain their equilibrium much better than might reasonably be expected, a fact due largely to the moderate size of the general product thus far. A heavy influx equalling the cut of last year at this date would disorganize things considerably. Chrysanthemums are now beginning to accumulate and prices are tending downward in anticipation of the expected surplus. Qualities are generally fine but prices are already much below those realized last season for the same quality under even conditions. Roses are improving in quality and some very fine carnations are beginning to come in. Violets are not yet up to standard and the demand for them has shown but little life so far.

PHILADELPHIA

A much better tone prevailed all along the line in this market last week. Improvement was especially notable in chrysanthemums, the finer varieties, such as Appleton, Florence Harris, Golden Dome and Ivory being plentiful and dominating the situation. No very large figures are quoted, but the demand is, and has been, excellent. Pompons in sprays in yellow, white and other colors are popular. The rose market is a little sluggish as to demand, but the cool weather has greatly improved the quality. Killarney, Chateaufort and Richmond are especially good. Carnations have also improved in quality and are selling well. Violets also are going better. The cattleya supply is larger than ever in the history of the trade, yet they seem to move off in pretty good shape. Dendrobiums are scarce.

SAN FRANCISCO

Business is quiet at the present time; in fact, we have had very little in the line of society events as yet, which is perhaps partly due to the unsettled conditions owing to the coming city elections and the graft prosecutions, in

the latter of which many of our leading society people are involved. Chrysanthemums are a glut on the market. They are of very good quality, both grown under glass and outdoors. Violets are also coming in in good quantities. Carnations and roses are in fair supply and of pretty good quality for the time of year.

After the rain and wind storm of the 27th and 28th, all nature is smiling once more, and business is improving right along. Cosmos and dahlias are virtually things of the past for there have been killing frosts in every section. Chrysanthemums are here in full ranks and are as much a favorite of the public as ever before. Carnations are responding to the cold weather, and both stem and color are much improved over the past few weeks.

BUSINESS CHANGES.

Robert S. McMurray succeeds Poole & Purlant at 605 E. Columbus avenue, Bellefontaine, O.

William Milley, Buffalo, N. Y., has sold out his business to his brother John, recently with the Erie Floral Co.

The business of Dietrich & Huston, 1146 Wall St., Los Angeles, California, will hereafter be carried on by Mr. Dietrich, his partner having retired from business.

The business of Alex. Emslie & Co., Barre, Vt., under the skilful management of George Emslie, has outgrown its old quarters and has been moved to the Woods block, where more room and modern conveniences are had.

A. L. Randall & Co., 19-21 East Randolph St., Chicago, have increased their capital stock from \$10,000 to \$50,000, a fact that speaks eloquently for the growth of the business and the strength of the firm.

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

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Fresh Cut Palmetto & Cycas Palm Leaves, Galax, Leucophaea, Ferns and Mosses, All Decorating Evergreen.

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WHOLESALE FLORIST
 Finest American Beauties and
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51 West 28 St. - NEW YORK

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 48 West 28th Street, NEW YORK
FINE ROSES FANCY CARNATIONS
 A Full Line of All CUT FLOWERS
 Telephone, 3870 or 3871 Madison Square

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 Choice Cut Flowers,
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The Reliable Commission House
 Richmond Roses and Rich Flowers
 of all varieties
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 110 W. 28th Street, New York
 Tel. 324-325 Madison Square

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 All Choice Cut Flowers in Season
 55 West 28th St., New York
 Telephone 3924 Madison Square.

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 LARGEST GROWERS
 A full line of Choice Cut Flower stock for all purposes. Comprises every variety
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ORCHIDS A SPECIALTY
 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
 CARNEDIAS, DAISIES, ROSES AND CARNATIONS
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PHILIP F. KESSLER, Commission Dealer, Wholesale
 Buyer and Seller of
Cut Flowers
 55 and 57 West 28th Street, New York City.
 Open from 5 a.m. to 6 p.m. Sundays, till 10 a.m.
 Telephone, 5243 and 2321 Madison Square. Residence, 345 J, Newtown.
Finest Lilies in the Market Every Day in the Year.

WHOLESALE COMMISSION FLORIST **J. K. ALLEN** 106 W. 28 ST
 NEW YORK
 Telephone 167
 Madison Sq.
 OPEN 6 A.M. DAILY
 We have a good regular outlet for seasonable flowers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Oct. 26 1907	First Half of Week beginning Oct. 28 1907		Last Half of Week ending Oct. 26 1907	First Half of Week beginning Oct. 28 1907
Roses			Carnations, Fancy and Novelties.	1.00 to 3.00	1.00 to 3.00
Am. Beauty, fan and sp.	10.00 to 15.00	10.00 to 15.00	Ordinary .....	..... to 1.00	..... to 1.00
" extra	5.00 to 8.00	5.00 to 8.00	Violets .....	.40 to .60	.40 to .60
" No. 1	3.00 to 6.00	3.00 to 6.00	Cattleyas	20.00 to 40.00	20.00 to 40.00
" Lower grades .....	..... to 1.00	..... to 1.00	Lilies	3.00 to 6.00	3.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp	3.00 to 5.00	3.00 to 5.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
" " lwr. grds. ....	..... to 1.00	..... to 1.00	Gladioli	1.00 to 2.00	1.00 to 2.00
Liberty, Richmond, fancy & special	3.00 to 5.00	3.00 to 5.00	Chrysanthemums, Fancy	8.00 to 25.00	8.00 to 25.00
" " lower grades ..	..... to 1.00	..... to 1.00	Ordinary	1.00 to 3.00	1.00 to 3.00
Kaiserin, Carnot, fancy and spec.	..... to .....	..... to	Adiantum	1.00 to 1.25	1.00 to 1.25
" " lower grades ..	..... to .....	..... to	Smilax	8.00 to 10.00	8.00 to 10.00
Killarney, Wellesley, fan. and spec.	3.00 to 5.00	3.00 to 5.00	Asparagus Plumosus, strings...	..... to 50.00	..... to 50.00
" " lower grades ..	..... to 1.00	..... to 1.00	" " & Spre. (100 bchs.)	10.00 to 15.00	10.00 to 15.00

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
 Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
 Telephone 356 Madison Square

Edward C. Horan
Wholesale Florist
 55 WEST 28th ST.
 Tel. 1462 1463 Madison Square New York

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Furnish best stock at fair prices all the year round Send for quotations on fall orders
 Tel. 798.799 Madison Sq. 44 West 28th Street, New York City

Alexander J. Guttman
THE WHOLESALE FLORIST OF NEW YORK
43 WEST 28th STREET
 PHONES. 1664--1665 MADISON SQUARE
ENOUGH SAID

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HARDY CUT FERN

Sphagnum Moss, Extra Large Bales, per bale, \$1.25. Fancy and Dagger Ferns our specialty. A trial order will convince you that we ship only first-class stock. Headquarters for Florists' supplies and wire work. All cut flowers in season.

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All 'phone connections

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WHOLESALE FLORISTS
54 West 28th St.
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Telephone 3559 Madison Sq.

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**RECEIVERS & SHIP-
PERS OF CUT
FLOWERS.**
CONSIGNMENTS SOLICITED.

Headquarters in Western New York
FOR
ROSES, CARNATIONS
And all kinds of Seasonable Flowers

Wm. F. Kasting Co.

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

**383-87 ELLICOTT ST.
BUFFALO, N. Y.**

Give us a trial. We can please you.

Best Flowers IN THE BOSTON MARKET

N. F. McCarthy & Co.

84 Hawley St., BOSTON, MASS.

— Send for Prices —

WANTED

More Consignors of First-Class Stock.

Best Prices and Prompt Returns.

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Brooklyn's Foremost and Best

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A First Class Market for all CUT FLOWERS

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New York.

FRANK S. HICKS & CO.

Wholesale Florists.

Open Now for Consignments of Cut Flowers.

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Tel. 2920 Mad. Sq.

Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission

A Reliable Place to Consign to or order from

Telephone: 3860-3871 Madison Square

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Telegraphic Orders Filled and Delivered.

55-57 West 26th St., New York City.

A. MOLTZ

Will purchase flowers on order in
N. Y. market and ship carefully at
prevailing wholesale prices. Address

55-57 West 26th Street, New York City

HENRY M. ROBINSON & CO.

WHOLESALE COMMISSION FLORISTS

Finest Grades of Roses, Carnations, Chrysanthemums, Lily of the Valley, Violets, etc.

15 Province St. & 9 Chapman Pl., Boston, Mass.

See our Fern ad.

WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Oct. 27		Oct. 29		Oct. 29		Oct. 28	
ROSES								
Am. Beauty, Fan. and Sp.	.....	to 25.00	.....	to 25.00	20.00	to 25.00	20.00	to 25.00
Extra	15.00	to 20.00	30.00	to 35.00	12.00	to 20.00	12.00	to 15.00
No. 1	10.00	to 12.50	25.00	to 28.00	8.00	to 10.00	6.00	to 10.00
Lower grades	6.00	to 8.00	8.00	to 8.00	3.00	to 8.00	.....	to 4.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	6.00	to 8.00	7.00	to 10.00	5.00	to 8.00
Low gr.	3.00	to 4.00	4.00	to 6.00	2.00	to 7.00	3.00	to 4.00
Liberty, Richmond, Chateauf, F&S	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00	5.00	to 8.00
Lower grades	4.00	to 5.00	4.00	to 6.00	2.00	to 6.00	3.00	to 4.00
Kaiserin, Carnot, Fan. & Sp.	.....	to 4.00	.....	to 4.00	.....	to 4.00	.....	to 4.00
Lower grades	.....	to 4.00	.....	to 4.00	.....	to 4.00	.....	to 4.00
Killarney, Wellesley, Fan. & Sp.	6.00	to 8.00	6.00	to 8.00	8.00	to 10.00	5.00	to 8.00
Lower grades	4.00	to 5.00	4.00	to 6.00	5.00	to 6.00	3.00	to 4.00
CARNATIONS								
Fancy and Novelties	.....	to 3.00	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00
Ordinary	1.00	to 2.00	1.50	to 2.50	1.00	to 2.00	1.00	to 2.00
MISCELLANEOUS								
Violets	.50	to .75	.50	to .75	.60	to .75	.75	to 1.00
Cattleyas	40.00	to 50.00	50.00	to 60.00	40.00	to 50.00	40.00	to 50.00
Lilies	.....	to 15.00	15.00	to 15.00	4.00	to 15.00	15.00	to 18.00
Lily of the Valley	3.00	to 5.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Chrysanthemums, Fancy	15.50	to 25.00	12.50	to 25.00	15.00	to 20.00	15.00	to 25.00
Ordinary	8.00	to 10.00	6.00	to 10.00	5.00	to 10.00	4.00	to 12.00
Adiantum	.....	to 1.00	1.00	to 1.50	.50	to 1.00	1.00	to 1.50
Smilax	12.00	to 15.00	12.50	to 15.00	12.00	to 15.00	15.00	to 18.00
Asparagus Plumosus, strings	40.00	to 50.00	50.00	to 75.00	40.00	to 50.00	30.00	to 50.00
" " & Spreng. (100 bchs.)	.....	to 25.00	10.00	to 20.00	25.00	to 50.00	30.00	to 40.00

H. G. BERNING

Wholesale Florist

1402 Pine Street, ST. LOUIS, MO.

Alex Mann, Jr. Co. Inc.

Wholesale Dealer in

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White Doves, \$9.00 per doz.

Galax Leaves.

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Long Distance 'Phone 1435 Court.

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122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties

and are dealers in

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dysart, 28 State St., Boston.
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ACHYRANTHES

Achyranthes, yellow, 2½-in., 2c.; 3-in., 4½c.
Hammerschmidt & Clark, Medina, Ohio.

ADIANTUMS

Adiantum Hybridum, 2 1-2 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Pro., Highland, Ulster Co., New York.

ANTIRRHINUMS

Snapdragon Queen of the North, 3 1-2 in. pots, in bud and bloom, \$1.00 per 100. Alonzo J. Bryan, Washington, New Jersey.

ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
For page see List of Advertisers.

J. Lambert, 150 Nassau St., New York, N. Y.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri, 2½-in., 1½c. Fine. Hammerschmidt & Clark, Medina, Ohio.

Asparagus Sprengeri, field grown, \$4.00 and \$6.00 per 100. C. Winterich, Defiance, Ohio.

Asparagus nanus and Sprengeri, 2-in., ready for a shift, 1-1-2c. U. G. Hargle-rode, Shippensburg, Pa.

Asparagus Plumosa, 2 in. pots. Fine plants. \$2.50 per 100; \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa.; or, Wm. F. Kasting Co., 385 Elliott St., Buffalo, N. Y.

OUR SPECIALTY.

Asparagus plumosus, Asparagus Sprengeri and smilax.

Wholesale and retail.

Pleasant View Greenhouses. A. L. Warner, Prop., 102 East St., Pawtucket, R. I. Tel. 535 L.

AUCTION SALES

Sales of Decorative plants, Carnations, etc., every Tuesday and Friday. If you cannot attend send bids and shipping instructions. Catalogues on application. N. F. McCarthy & Co., 84 Hawley St., Boston.

BAMBOO CANES

Stump & Walter Co., 50 Barclay St., New York.

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Yokohama Nursery Co., 31 Barclay Street, New York.

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BAY TREES.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

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Begonias, flowering; 6 varieties, 3-in., 4½c. Fine for Christmas trade.
Hammerschmidt & Clark, Medina, Ohio.

BOILERS

BOILERS. Burnham Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all description for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths; Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
White Roman Hyacinths.
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Callas, Narcissi, Dutch Bulbs.
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Aug. Rolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs.
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John Scheepers & Co., 4 and 6 Old Slip, New York.

Lily of the Valley Excellenta.
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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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Nathan Smith & Son, Adrian, Mich.
Chrysanthemum Golden Glow.
For page see List of Advertisers.

500 white Chrysanthemum plants, out of 6 (six) inch pots, in bloom, 25 cents each. Ed. A. Lorentz, Middletown, N. Y.

October Frost, the best early white Chrysanthemum, strong stock plants, \$1.00 doz. Clementine Touset, 75c. doz. C. H. Ketcham, N. S. D., South Haven, Mich.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2-1-2 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

CHRYSANTHEMUMS.

Stock plants of early kinds now ready: MONROVIA, MONTMORT, ROSIERE, TOUSET, POLLY ROSE, PACIFIC, OPAH, BERGMANN, and all standard earlies \$4 per 100. Later kinds, Nov. 1. Stock plants of all of Hill's and Totty's novelties of this year, \$10 per 100. Send for catalogue of over one hundred kinds now ready. HARLOWARDEN GREENHOUSES, GREENPORT, N. Y.

CINERARIAS.

Cinerarias, finest strain from best English and German sources, 2-in. pots, strong. \$1.50 per 100. Cash. E. Fryer, Johnstown, Pa.

COLEUS

Coleus, all kinds, fine, 2½-in., 1½c. Hammerschmidt & Clark, Medina, Ohio.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Oak Hill Nurseries, Roslindale, Mass.
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Bay State Nurseries, North Abington, Mass.
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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Send for New Illustrated Catalogue.
Just Out.

H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 1741 N. 18th St., Philadelphia.
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DAHLIAS

David Herbert & Son, Atco, N. J.
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J. L. Moore, Northboro, Mass.
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Dahlias, just as dug from field; cactus, show, fancy and decorative, over 100 varieties. Write for prices. A. W. Gardner, Lock Box 575, Springfield, Mass.

DAISIES

The Fernery, 1421 Charles St. N., Baltimore, Md.

New Double Daisy.

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White Marguerite Daisies, 2-in. pots, \$2.00 per 100. E. O. Perry, Berlin, Mass.

DECORATIVE PLANTS

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Julius Roehrs, Rutherford, N. J.
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Anton Schultheis, College Point, N. Y.
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J. Lambert, 150 Nassau St., New York.
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EVERGREENS

Evergreens for window boxes. Handsome little trees, well furnished. Norway Spruce, Retinosporus, Irish Junipers, Pines and Arborvitae 12 to 30 inches high. Write for prices. Maurice J. Brinton, Christiansa, Pa.

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- The H. Weber & Sons Co., Oakland, Md.
Seedling Carnation Toreador.
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- Guttmann & Weber, New York.
Carnation Victory
- Carnations extra large and strong stock,
field-grown, Crocker, \$4.00 per 100. W. C.
Pray, Kinkora, N. J.
- Bargains—Strong field-grown Carnations,
Louise, Harlowarden, Lord, \$3.50 per 100.
Larger quantity at your own price. Try a
few. Henry Schrader, Saratoga Springs,
N. Y.
- Surplus Carnation plants: Enchantress,
Lawson, Queen, Fair Maid, Rose-Pink
Enchantress, Victory, etc. For informa-
tion write Peirce Bros., Waltham, Mass.

FLORISTS' GREENING PINS

- Wm. Schlatter & Son, Springfield, Mass.
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- Send for New Illustrated Catalogue.
Just Out.
- H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

FLORAL PHOTOGRAPHS

- Floral Photographs. Foley's 226-228 1-2
Bowery, New York.

FLORISTS' LETTERS.

- Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.
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- Koral Mfg. Co., 26 Hawley St., Boston.
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- Send for New Illustrated Catalogue.
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- H. Bayersdorfer & Co.,
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- H. M. Robinson & Co., 15 Province St. and
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- Theodore Miller, 4832 Delmar Bvd.,
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- William J. Smyth, Michigan Ave. and 31st
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- Park Floral Co., Denver, Colo.
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- Jacob Schulz, 644 4th Ave., Louisville, Ky.
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- Atlanta Floral Co., Atlanta, Ga.
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- David Clarke's Sons, 2159-2141 Broadway,
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- W. H. Donohoe, 17 E. 28th St., New York.
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- H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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- Wm. L. Rock Flower Co., 1116 Walnut
St., Kansas City, Mo.
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- Julius A. Zinn, 2 Beacon St., Boston.
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- A. Warendorff, 1193 Broadway, New York.
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- Robert G. Wilson, Fulton St. & Greene
Av., Brooklyn, N. Y.
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- Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

- W. H. Ernest, 28th and M Sts.,
Washington, D. C.
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- A. H. Hews & Co., Cambridge, Mass.
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- Hilfinger Bros., Ft. Edward, N. Y.
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FORGET-ME-NOTS

- Forget-me-nots, 100,000 Strong Stocky
Plants, alpestris blue and white, Victoria,
Robusta grandiflora, Eliza Fairbrother, \$2.50
per 1000. Gustave Freytag, Hilltop Pl.,
W. Orange, N. J.

GALAX

- Michigan Cut Flower Co., 38 and 40 Broad
way, Detroit, Mich.
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- Finest green and bronze Galax in any
quantity at lowest figures. N. F. Mc-
Carthy, 84 Hawley St., Boston.

- Send for New Illustrated Catalogue.
Just Out.
- H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

GERANIUMS

- R. Vincent, Jr. & Sons, White Marsh, Md.

GLADIOLI

- Arthur Cowee, Meadowvale Farm, Berlin,
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- J. L. Moore, Northboro, Mass.
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- Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.
- Augusta gladioli, and white and light.
Rowehl & Granz, Hicksville, L. I., N. Y.

GLASS

- Boston Plate & Window Glass Co., Boston.
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- Standard Plate Glass Co., 26-30 Sudbury
St., Boston.
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- Foley Mfg. Co., between Western Ave. and
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- GLASS, High Grade, Double Thick Green-
house Glass. Lord & Burnham, 1133 Broad-
way, N. Y.

GLAZING POINT

- H. A. Dreer, Philadelphia, Pa.
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- GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

GLAZING PUTTY

- Benjamin Hammond, Fishkill-on-Hudson,
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GRADING AND PLANTING

- D. Robinson's Sons, Revere Beach Park-
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GREENHOUSE BUILDING MATERIAL.

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- J. C. Moninger Co., 117 East Blackhawk St.,
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- I. Cassidy, 215-21 Randolph Ave., Jersey
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- S. Jacobs & Sons, 1365-79 Flushing Ave.,
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- Metropolitan Material Co., 1398-1408 Metro-
politan Ave., Brooklyn, N. Y.
- D. Hiffe, 49 Washington St., N., Boston
Piping and Construction.

GREENHOUSE CONSTRUCTION

- GREENHOUSE CONSTRUCTION, Semi-
Iron Greenhouse, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.
- J. A. Payne, 260-274 Culver Ave., Jersey
City, N. J.
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- I. Cassidy, 215 to 221 Randolph Ave., Jer-
sey City, N. J.
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- Foley Mfg. Co., between Western Ave. and
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GREENHOUSE HOSE

- Mineralized Rubber Co., 18 Cliff St., N. Y.
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In writing to Advertisers kindly mention Horticulture

GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND SUPPLIES

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The Kervan Co., 112 W. 28th St., N. Y.
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Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Fancy Ferns.

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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY HERBACEOUS PLANTS

Bay State Nurseries, N. Abington, Mass.
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New England Nurseries, Inc., Bedford, Mass.

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M. H. Walsh, Woods Hole, Mass.

Eastern Nurseries, M. M. Dawson, Mgr., Jamaica Plain, Mass.

Hardy Perennials: extra large field-grown clumps, three dollars and four dollars per hundred. Delphinium, Coreopsis, Digitalis, Platycodon, blue and white, Anemone, Hibiscus, Gaillardia, and many other standard species. Samples sent by express on receipt of stamps to cover cost and packing. James Krewson & Sons, Cheltenham, Montgomery County, Pennsylvania.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Payne, 260-274 Culver Ave., Jersey City, N. J.
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HOLLYHOCKS

Double hollyhocks, 6 separate colors, from field, \$2.00 per 100. U. G. Harglarde, Shippensburg, Pa.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

INSECTICIDES.

Nicotinic kills all greenhouse pests.

P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil.

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Carman's Anti-pest.

Perfection Chemical Co., Flushing, N. Y.
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Benjamin Hammond, Fishkill-on-Hudson, N. Y.

Slug Shot: Grape Dust.

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IRISES

We have 100,000 Japan Irises, the finest collection in this country. Rowehl & Granz, Hicksville, L. I., N. Y.

Iris pallida Dalmatica, fine lavender blue, the largest and finest variety of all the German Irises; divisions, \$15.00 per 100. Cash with order. J. A. Peterson, Westwood, Cincinnati, Ohio.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.

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JAPANA CUT FLOWER HOLDER

M. V. Garnsey, 130 So. Walola Av., La Grange, Ill. Dept. O.

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Send for New Illustrated Catalogue.

Just Out.

H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

KENTIAS

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A. Warendorff, 1193 Broadway, New York.
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Robert G. Wilson, Fulton St. and Greene Ave., Brooklyn, N. Y.

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Mills the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.

Long distance telephone connections.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 12 W. Broadway and 227 Greenwich St., New York.
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MUSHROOM SPAWN

100 lbs. best English, \$6; 250 lbs. at 54c.; brick prepaid, 22c. J. J. Styer, Concordville, Pa.

NEW AND RARE PLANTS

Rose Hill Nurseries, New Rochelle, N. Y.
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NICO-FUME

Kentucky Tobacco Product Co., Louisville, Ky.

NIKOTEEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
Specimen Pyramidal Box.
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The Conard & Jones Co., West Grove, Pa.
Hardy Stock.

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Bay State Nurseries, N. Abington, Mass.
Herbaceous Perennials, Hardy Ornamental Trees.

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Oak Hill Nurseries, Roslindale, Mass.
Ornamental Nursery Stock.
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Oaks, Pines, Deutzias.
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Nursery Stock. N. F. McCarthy & Co.,
84 Hawley St., Boston, Mass.

Red Rose Farms and Nurseries, G. C. Watson, Trustee, 839 Market St., Phila.
Shrubbery: Clearing Sale.

Asparagus, three year old, large Japanese Barberry and Itoya Privet. Paper Birch, Catalpas, Russian Mulberry, Sycamores, Golden and Carolina Poplar, Sugar and Norway Maples, Sycamore Maple seedlings, Erie and Rathbun blackberries. Norwich Nurseries, Norwich, Conn.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
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Jos. A. Manda, 191 Valley Road, W. Orange, N. J.

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Ordonez Bros., Madison, N. J., Box 105.
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PALMS

A. Leuthy & Co., Roslindale, Mass.
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Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Greenhouse Paint and Putty.

PAINT AND PUTTY: Ideal Greenhouse lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

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PANSY PLANTS.

Giant pansies, \$2.50 per 1,000. U. G. Harglerode, Shippensburg, Pa.

Choice pansy plants, 50c. per 100; \$4.00 per 1000. Cash. Aug. Zingmichel, Needham, Mass.

100,000 Pansy Plants assorted Var. named, \$3 per 1000; Giant flowering mix., \$2.50 per 1000. Gustave Freytag, Hilltop Pl., W. Orange, N. J.

Pansies. The world's finest mixture, good size for planting in cold frames, \$2.50 per 1,000. Transplanted, \$4.00 per 1,000. Cash. E. Fryer, Johnstown, Pa.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat, Leaf-Mould, Live Sphagnum moss, Baled Sphagnum moss, Green Clump moss, etc. Jobbers' list on application. C. W. Brownell & Co., Walden, N. Y.

PEONIES

Wm. Elliott & Sons, 201 Fulton St., New York.
Herbaceous Peonies.

M. H. Walsh, Woods Hole, Mass.

Peonies and Perennials; Peony, Phlox and Evergreen Manuals, 25 cents each, in stamps. C. S. Harrison's Select Nursery, York, Nebr.

PIPE AND FITTINGS

Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT AND TREE TUBS

American Wooden Ware Mfg. Co., Toledo, O.

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PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers. Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primulas Forbesi and obconica, 2-in., ready for shift, 11-2c. U. G. Harglerode, Shippensburg, Pa.

5,000 Chinese primroses, fringed, double and single, 4 1/2 in. pots, mixed colors, extra strong plants, 8c. each. Try them. Primula obconica, 4 1/2 in. pots, bud and bloom, 4c. each. Alonzo J. Bryan, Washington, New Jersey.

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Privet Amurense, all sizes. Write for trade list. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

Trained Privet: Pyramidal and standard forms; three thousand shapely plants; five to eight feet; excellent for screening and ornamental purposes; at trifling cost as with Bay Trees. Prices on application. James Krewson & Sons, Cheltenham, Montgomery County, Pennsylvania.

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M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.

A. B. Davis & Son, Purcellville, Va.

Baby Rambler Roses.

Low-budded roses, No. 1, \$95.00; No. 11-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

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Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. I.

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Spiraea, extra fine clumps in leading variety. F. W. O. Schnitz, Prince Bay, N. Y.

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Asparagus, 1-year roots, \$2.50 per 1,000. U. G. Harglerode, Shippensburg, Pa.

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VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

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Vinca var., field grown, large clumps. \$5.00 per 100. U. G. Harglerode, Shippensburg, Pa.

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Baur Floral Co., Erie, Pa.

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3000 Princess of Wales field clumps, \$4.00 per 100. Violet man. A. B. Campbell, Cochranville, Pa.

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Galvanized Wire Stakes.

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William E. Heilscher's Wire Works, 38-40 Broadway, Detroit, Mich.

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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—An experienced carnation and chrysanthemum grower as foreman. Address with references, G. B. Buxton, Nashua, N. H.

SITUATIONS WANTED

SITUATION WANTED as foreman by sober, ambitious young man; long all-round experience on good wholesale and retail places; good grower of carnations, 'mums, roses and general stock; not afraid of work; married; references; Conn., Mass., or adjoining states preferred; state wages in first letter. X. Y. Z., care General Delivery, Bridgeport, Conn.

WANTED—Position in the South by first-class gardener, Scotchman, 40 years old, life experience in Scotland and America. Address George Petrie, Elite Hotel, 159 1-2 Eliot St., Boston.

SITUATION WANTED by gardener with good record, private place preferred. Married, two children. Address N., care HORTICULTURE.

SITUATION WANTED in general greenhouse work; single, age 35, five years' experience, commercial. Address W. W., care Horticulture.

WANTED. Position as manager of plant and fern growing establishment. Experienced. L, care HORTICULTURE.

FOR SALE

FOR SALE—One top delivery wagon and one open delivery wagon, suitable for a florist's use; almost new and in good order; also a pair of good delivery horses; the above can be bought at your own price. Ed. Higon, 146 West 28th st., New York.

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The Dahlia. By L. K. Peacock. Price, 30 cts.

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Manual of the Trees of North America. C. S. Sargent. Price, \$6.00.

The First Country Park System. F. W. Kelsey. Price, \$1.25.

The Horticulturist's Rule-Book. Bailey. Price, 75 cts.

The Chrysanthemum. Herrington. Price, 50 cts.

How to Make Money Growing Violets. Saltford. Price, 25 cts.

The New Cyclopaedia of America Horticulture. L. H. Bailey. Six large quarto volumes; 146 full-page plates; 25,000 plant names; \$25.00 in payments of \$1.00 down and eight monthly payments of \$3.00 each, or cash payment of \$23.75.

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11 Hamilton Place, BOSTON

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OBITUARY.

O. B. Hadwen.

O. B. Hadwen, for many years president of the Worcester County (Mass.) Horticultural Society, died October 21, at the age of 63 years. Mr. Hadwen was a farmer and fruit grower, who took great interest in trees and pre-



THE LATE O. B. HADWEN

sented an area of about 50 acres, known as Hadwen Park, to the city of Worcester several years ago. He officiated as president of several other societies during his career, including the American Pomological and Massachusetts Horticultural Societies.

Other Deaths.

Michael C. Ring, for the past twenty-five years engaged in the florist business in Quincy, Mass., died on Oct. 26 at his home. Mr. Ring was born in Ireland in 1830 and came to America in 1855. He is survived by a widow and three children.

While he slept, Renn Thauer, a gardener employed by Frederick Fenster, of 345 Linwood avenue, Buffalo, was asphyxiated by coal gas in the barn at the rear of the Fenster home. His lifeless body was found in bed by Mr. Fenster. The police and Deputy Medical Examiner Howland were summoned. Dr. Howland believes the man fell asleep after filling the stove with coal and was soon overcome. Thauer was 65 years old.

Last week there passed away in the person of Dr. Frederick Bradley one of the most devoted and enthusiastic horticulturists in the city of Newport, R. I. Although as a horticulturist classed an amateur, Dr. Bradley was nevertheless an ardent supporter of every movement tending to the advancement of those practically engaged in the calling. He was at one time president of the Newport Horticultural Society and a member at the time of his death.

The Julius Roehrs Company, Ruthersford, N. J., are sending out an illustrated folder, introducing their beautiful new Rambler rose, Newport Fairy. A colored plate of this fine novelty is shown and gives a good idea of the rich pink tinting of its flowers.

WESTERN NEW YORK APPLE CROP REPORT.

According to reports from growers, the apple crop as a whole has made progress in the right direction lately. A recent windstorm blew many wormy apples to the ground, but the sound fruit on the trees was benefited. Winter varieties, especially Baldwins, have improved considerably since August, and the crop will turn out much better than expected a month ago. At the same time, however, it cannot be said that early deficiencies will be entirely recovered. The crop will fall short of last year in both quantity and quality, although there will be some fine stock.

Greenings have so far matured and ripened that they are being picked in various orchards. Results are irregular, some fruit showing up fine and some poor.

Taken as a whole, however, the out-turn may be called disappointing. At least, that is what many have termed it. One grower said that in his orchard where the crop looked pretty good earlier in the season, he was picking from one to two barrels of No. 2's in every ten. The fruit is being moved daily now into storage. Most of the storage space is leased, although some houses are still advertising that they have a little room left. The New York "Packer" says:

"The best Greenings have been bought at prices running from \$3 to \$3.75 a barrel. The best orchards are being picked up daily. The action of the middle western men has stimulated the buying movement. The operators from the west have been buying freely, paying the top prices as though they had money to burn and were not afraid to take a chance. Many of the eastern buyers passed up what the western men stumbled over each other to get. Some New York buyers would just as soon rob Peter to pay Paul, but they don't feel like robbing themselves to pay farmers four plunks for apples that will stand them from \$5 to \$6 a barrel. Such prices, they say, are too dangerous for the effete East. Consequently quite a few of them are letting the western operators bite off just as much as they want, and it is intimated that maybe some of them have already bitten off more than they can chew. Fruit that costs from \$4 to \$5 or more barreled and on top of that has to stand the storage charge, to the cautious eastern man looks like a questionable investment when money is tight and the investment field offers other more promising opportunities."

We are glad to learn from George M. Kellogg that, although it is only four weeks since the disastrous boiler explosion at his greenhouses in Pleasant Hill, Mo., he has already got the place into fair shape, the 67 houses, each 250 feet in length, all of which were damaged by falling fragments, being repaired and glazed. It took one thousand boxes of glass to accomplish this. The expense together with the cost of new boilers amounted to \$20,000. Mr. Kellogg says his greatest help lay in the fact that he had a carload of reserve glass on hand when the accident happened, and he recommends this as worthy of consideration by his brother florists. Mr. Kellogg desires to express through HORTICULTURE his appreciation and gratitude for the many words of sympathy which have come to him from every part of the country.

?

Is Your Name In The Above List? If Not, Why Not?

WILSON'S PLANT OIL

If you want to make money there is only one way. That is to have clean stock and the only way to get it is by using WILSON'S PLANT OIL.

Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants. Yours very truly,
New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
GEO. A. SKENE.

Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons. Yours truly,
Florham Farms, Madison, N. J., December 8, 1906.
A. HERRINGTON.

PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

ANDREW WILSON, Dept. 8,

SUMMIT, N. J.

Selling Agents for New England, R. & J. FARQUHAR & CO., 6 and 7 South Market St., Boston, Mass.



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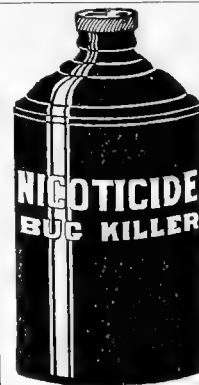
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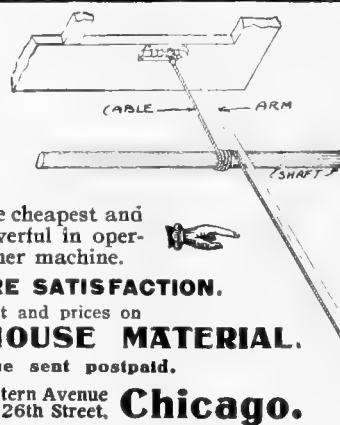
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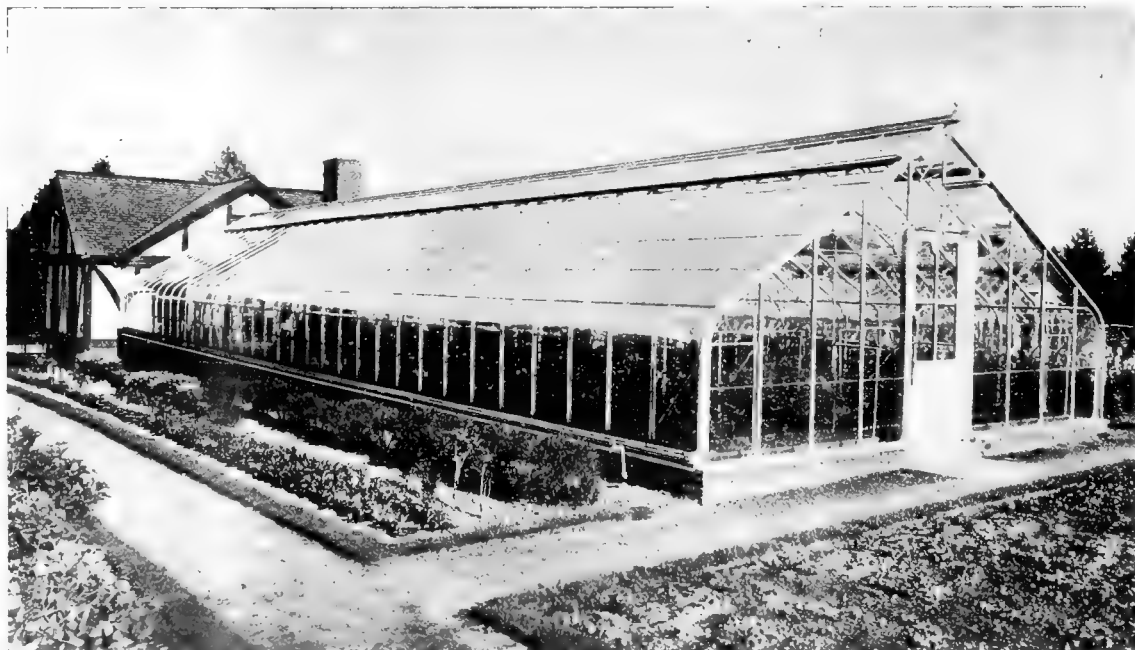
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HORTICULTURE

Vol VI.

NOVEMBER 9, 1907

No. 19



DAHLIA CHARLES LANTER

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8-10 in. diam.	\$3.50	\$25.00	15-16 in. diam.	\$9.00	\$75.00
10-12 "	4.50	35.00	16-18 "	12.00	90.00
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Specimen Trees,
with or without Tubs.

	Each.	Per Pair
PYRAMIDS, 5 ft.	\$3.50	\$6.00
" 4 "	2.50	4.00
" 3 "	2.00	3.50

	Each.	Per Pair
PYRAMIDS, 2 1/2 ft.	\$1.50	\$2.50
BUSH FORM, 12 in., 30c each, \$2.50 for 10		
" " 18 " 40c " 3.50 for 10		

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CHRYSANTHEMUM SOCIETY OF AMERICA

The annual meeting of the Chrysanthemum Society of America was held in the Assembly Hall of the American Institute, New York City, on Wednesday afternoon, November 6, President A. J. Loveless in the chair. A letter explaining the unavoidable absence of Secretary Fraser was received and A. Herrington was elected secretary pro tem. The secretary's report was read, calling attention to the regrettable lack of organized enthusiasm among the chrysanthemum growers.

President Loveless read his annual address, which was listened to with close attention and was liberally applauded. It was as follows:

The President's Address.

Gentlemen,—When you chose me for your president at the Chicago meeting, it was with some reluctance that I assumed the responsibilities of the office, knowing the importance of the work undertaken by the society, and the reputation which had to be maintained; but with the assistance of all the officers, I look back with pleasure on the efforts of the past year.

Discouragements we have had, but I think I can with confidence say, that we are in a better and more promising condition than we were a year ago, but there is still need for a more general combined effort to place the society where it should be, and make it what it stands for, and professes to be, a really national society in every sense of the word. Individual responsibility can alone accomplish this, but the right spirit is still lacking among our membership, and if the society ever expects to maintain its position, every member must be up and doing, and make the growth of the society a personal obligation.

While we have steadily increased our membership, there are hundreds who should come in and help by their influence, to give impetus to the work of the society. It has been impressed upon the society the importance of personal solicitation. I emphasize that recommendation, and would also suggest the advisability of making an effort to put our society upon a more national basis.

I do not believe that the best interests of the society can be served by merely holding an annual exhibition in the autumn, as it has a tendency to localize the work in the immediate vicinity where the exhibition happens to be held.

A national society should have broader lines, and reach out so as to embrace every town in this country, where an exhibition of chrysanthemums is held, but this phase of the work can only be undertaken when the society has a regular standard membership, to insure sufficient funds to cover any expenses incurred. To this end I would suggest that the various horticultural societies throughout the country be invited to join the Chrysanthemum Society of America as auxiliaries, paying the national society an

amount to be determined by the membership of each individual society, pro rata. By this means every horticultural society in the country can become a part of the national society, and be enabled to compete for its special premiums, within its own jurisdiction.

Every lover of the chrysanthemum should belong to the national society, for when we consider the gradual improvement which has taken place in the quality of the flower, and the excellent blooms we see on our exhibition tables today, it inspires us with greater zeal for the further development of these gorgeous flowers, along the lines of superior quality, and nothing has done greater service in bringing about the results which we have witnessed today, in developing and encouraging

not be foreseen, and while we get some marvellous flowers from varieties originating in England, France and Australia, I feel sure the United States is capable of producing something even more phenomenal in size, and with a constitution suited to our climatic conditions, and while the whole world looks to us for the latest developments, let us be equal to the occasion, and by careful and systematic hybridization produce varieties which will be sought after the world over for their excellence.

We must work out our own problems in matters of cultivation, for no cultural methods successfully practiced in foreign countries can be adopted and carried out here with any degree of success, our climatic conditions being entirely different, this also being true of different sections of our own country.

A new era seems to have commenced by the introduction of the large-flowered, early varieties. These, I feel sure, will be very welcome, as in some localities the season for chrysanthemums is all too short, and we are fairly well supplied with late varieties, excepting, perhaps, a red variety that would come in for Christmas, the improvement seems to be in the right direction. The single varieties are also becoming more popular year by year, and as these are improved in quality and color, the general public will accept them as desirable plants for the home, and also for decorative purposes.

These are being grown more generally than is supposed, most every house of chrysanthemums containing a few singles, and as we become acquainted with them, our love for this class of blooms increases and we find a little more space devoted to them each year. The improvement of these varieties should be the work of our society, every encouragement being given to exhibits as opportunity offers. The importance of the Chrysanthemum Society of America as a factor in the chrysanthemum world can be appreciated when we learn that information is being sought after from Northern India by an admirer of our society, who is trying, as he says, to enlighten his ignorant countrymen and requests his name put upon our mailing list, that our publications may be forwarded. I cite this only as an instance which goes to show how the world is watching our progress, and it behooves every member of our society to consider the importance of a steady improvement in our work in keeping with the national character of our society.

A word regarding our annual report. I think it would be of the greatest importance could we arrange to include in its pages the reports of the various exhibitions held throughout the country, classifying the exhibits, naming the winning varieties in every case, and compiling these into a reference list, so that anyone could see at a glance which varieties had been most



ALFRED J. LOVELESS

President Chrysanthemum Society of America.

the growth of superior varieties, than the splendid work of the various committees appointed in the different sections of the country for this purpose, and here I would add that this society is indebted to these various committees for their untiring, unselfish devotion to the aims and purposes for which they are appointed, and which they so faithfully fill, for when we look through the various reports of exhibitions, we invariably see the prize winners are those varieties that have passed the censorship of these committees. Their work prevents anyone private or commercial, from needlessly occupying valuable space with worthless or doubtful varieties.

It is true that some varieties do not turn out as well as one might expect, but this fact is unavoidable and can-

successful in the exhibitions of the year, making valuable memoranda for the future.

I wish to thank the horticultural press for their courtesy in printing our notices, and also for their interest in the work of the society, and I hope in the future a column can be devoted to items of interest to chrysanthemum growers, and be contributed to by members of the society.

I also wish to thank the various committees who have so readily performed the duties of their office, to the donors of special premiums we also extend our thanks, and to the American Institute who have so kindly taken care of us during this convention, and to all those who have contributed in any way to the advancement of the interests of the Chrysanthemum Society of America.

Wm. Duckham then read a paper on the culture of the chrysanthemum, in which he contended that larger, nobler and more stately flowers is the key to continued popularity for the chrysanthemums. This paper will appear in these columns next week.

C. H. Totty then read an interesting paper on Single Chrysanthemums, which we present herewith.

Single-Flowered Chrysanthemums.

This type of chrysanthemum is not new, in the sense that it is a recent break from any other type, and yet it was until the past two years practically unknown by the majority of flower buyers in America.

There are several reasons for this, the principal one, perhaps, being that the general public has been educated to the large flowers and could not see their money's worth in the more modest singles, putting them down in their own minds as merely outdoor hardy flowers. Today things are changing and the single varieties are becoming recognized at their true worth.

I will confess that it was the working of the law of supply and demand that caused me to turn to the single varieties. Americans travelling in Europe and noting the many beautiful types of singles and the varied uses to which they were put, asked their superintendents why these singles were not grown more in America. As in every walk of business life the demand created the supply, and today I can point you to many private establishments where the singles are grown in ever-increasing quantity for conservatory decoration as pot plants, and where they are highly appreciated for cut flower use. One day last week I spent a few minutes in a high-class retail store; on the counter were two vases of singles, one Kitty Bourne, a yellow, and the other Ladysmith, a light pink. During those few minutes I noticed that two sales were made of those varieties, and though this may be only a straw, does not the old proverb say that a straw shows how the wind blows?

Aside, however, from the financial side of the question, the singles make beautiful pot plants, they are easy to grow, and there are few homes whose occupants cannot enjoy them if they care anything for flowers at all. There is no fear that the singles will displace the big fellows either on the show table or for large decorations; both

have their place and should be recognized.

I am not aware that the Chrysanthemum Society of America has ever made provision in its classification or scale of points for the single flowered types, but I submit it to the executive board for their consideration at some future date. The American hybridizer is busy raising new singles, and if the C. S. A. will give him encouragement and an ideal to aim for, I think we could soon see wonderful improvement over present types. I do not happen to know the scale of points of the British Society, but for the sake of uniformity it might be well, perhaps, in case this Society takes up the matter, to find out and see how they would apply to our own case.

A good type of singles to my mind should be first dwarf in habit. The weedy, loose-growing forms are not so well adapted for pot plants, nor do they make the showing as a cut flower that the dwarf or closer type does. The flower should be almost flat when opened; if the petal droops too much it destroys the shape of the flower, which should be circular—also the flower should not have too many rows of petals. A semi-double flower cannot be called a single in any sense of the word. If one add to these qualifications a flower of good, clean color, the result is a thing of beauty, which if not a joy forever is at least a source of great satisfaction to the grower and a boon to the gardener who has to produce a good deal of stock from a limited space.

Culturally, the singles present no problems to master. There is no question of crown or terminal buds, since the plants are allowed to develop naturally and of course give flowers only from terminals. I find it pays to disbud slightly, as the flowers then come out much finer and the plants respond to generous feeding as readily as do the big fellows.

A selection of good varieties would run about as follows: White—Miss Irene Cragg, Nancy Perkins, Gertrude, Miss T. C. Warden, and Merstham White. Pink—Ladysmith, Mrs. E. Roberts, Gracie Lambert, F. W. Smith, Reine des Roses, Katie Covell and Marvel. Yellow—Kitty Bourne, Lily Beer, Golden Star, Miss A. Holden, Pretoria and Kathleen Bunyard. Odd colors—Mary Richardson, salmon-red—one of the finest we have—Crown Jewel, a fine bronzy yellow, Belle of Weybridge, chestnut; Felix, chestnut; Linton, a large flowered deep blush; Rev. W. E. Rewfrey, a crimson maroon; Ethel Beer, a bright terra cotta.

The list of varieties runs into the hundreds and all have some merit, though many are almost identical in color, and one naturally looks for the cream only.

In conclusion, gentlemen, permit me to say that few plants will give better return for the amount of time and trouble involved in their culture than the once-despised single chrysanthemum.

Elmer D. Smith spoke in approval of the suggestion that the Society should recognize the different types of pompons, singles, etc., and provide a scale of points to meet all requirements in judging same. A motion by Mr. Totty

to appoint a committee to report a scale of points accordingly was carried.

Mr. Herrington addressed the meeting, urging that something be done to make the Society more truly national, and R. Vincent made an appeal on behalf of the hardy pompons, the only flower of the home gardens at this season of the year. He said that more than two-thirds of the hardy chrysanthemums now on the market had originated with him. Messrs. Totty, Smith and Duckham were appointed the committee to consider the interests of the pompons and single varieties.

Election of officers followed and the result was the re-election by a unanimous vote of all the officers of the present year, except the vice-presidency, for which August Poehlmann of Chicago was chosen. The selection of the next meeting place was left for the executive committee to decide.

Elmer D. Smith advocated action to get into co-operative relations with other societies. Mr. Herrington spoke in approval, as did also W. J. Stewart, who called attention to the existing committee on closer relations of the Society of American Florists, who would doubtless be glad to confer with a similar committee of the C. S. A. Mr. Herrington made a motion for an affiliation committee, which was carried, and the president appointed W. N. Craig, A. Herrington and Wm. Kleinheinz accordingly, with instructions to report as soon as possible to the executive committee.

President Loveless made an ideal presiding officer. He had as a special bodyguard the following members from Lenox, Mass.: Thomas Proctor, A. H. Wingett, Edwin Jenkins, Thomas Page, Frank Nash and Walter Fenn.

The Work of Committees.

Cincinnati, Oct. 26th. Commandant Mathien. Yellow, Jap incurved. Exhibited by The E. G. Hill Co., Richmond, Ind.; scored 87 points commercial and 88 points exhibition scale.

Cincinnati, Oct. 26th. Pacific Supreme. Pink, Glory of Pacific type. Exhibited by Nathan Smith & Son, Adrian, Mich.; scored 86 points commercial scale.

New York, Nov. 2nd. Seedling No. 4. Light pink, Jap reflexed. Exhibited by Frank Witney, Fishkill-on-Hudson, N. Y.; scored 88 points exhibition scale.

New York, Nov. 2nd. Joseph Tomlison. White, Japanese. Exhibited by Howard Nichols, Yonkers, N. Y.; scored 77 points commercial scale.

New York, Nov. 2nd. No. 10. Pink. Short petalled, Japanese. Exhibited by John Marshall, Newport, R. I.; scored 75 points commercial scale.

DAVID FRASER, Sec'y.

NEWS

of general interest to the profession and

Cultural Methods and Improved Processes

in any department of HORTICULTURE are always welcome, from whatever source. Send them along to the office of HORTICULTURE, 11 Hamilton Place, Boston.

NEWS OF THE CLUBS AND SOCIETIES.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting and floral display was held on the 1st inst., at the Society's rooms in Orange. Among the more prominent exhibits were: A specimen *Cosmos* "Lady Lenox" in an 8-inch pot and a vase of same, by John Crosby Brown, gardener Peter Duff, also a standard bush chrysanthemum, "Lady Lydia," from the same hand. Vase of exhibition chrysanthemum blooms from Sydney and Austin Colgate, gardener William Read. Vase of Pink Ivory, from Chas. Hathaway, gardener Max Schneider. Vase of mixed chrysanthemums from Stewart Dickson, gardener Albert Larson. *Cypripedium insigne* Sanderai, grown and exhibited by Edwin Thomas, and fruit from Stuart Hartshorne, grown by A. T. Caparn and Chas. Hathaway. John Derwin, gardener for A. C. Van Gaasbeck was placed in nomination, and Charles Schweinfurth was elected to membership. Final reports were made upon the forthcoming show on the 7th and 8th, and the acceptances read of John N. May, Charles H. Atkins and Anthony J. Manda to act as judges. A letter of sympathy to A. S. Rose, who is ill with pneumonia, was ordered sent by the secretary. J. B. D.

GARDENERS' MUTUAL PROTECTIVE ASSOCIATION OF NEW ORLEANS.

At the last meeting of this association the main discussion was in reference to the screening of open wells which the local board of health contends must be done to avoid the rapid breeding of mosquitoes. A committee of this association was appointed to call the health officers' attention to the fact that these open wells do not breed mosquitoes, for the simple fact that they contain minnows, fish which eat the larva of the mosquitoes, and as a consequence they are an assistant in killing the mosquitoes. The discussion brought forth also the fact that if these wells were screened or were equipped with tight covers and a pump attached, the water would become stagnant and injurious to young plants, especially lettuce, cucumbers, chrysanthemums, etc. The secretary of this active organization is John Parr. Meetings are held at 2 P. M. on the second Sunday of each month.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual meeting of the Massachusetts Horticultural Society for the election of officers for the ensuing year and for the transaction of such other business as may be legally presented will be held at Horticultural Hall, 300 Massachusetts avenue, Boston, at 11.45 A. M., on Saturday, November 16, 1907.

The officers to be elected are a president, vice-president (for two years), four trustees (for three years) and a nominating committee of five members.

The election will be by Australian ballot and the polls will be open continuously between the hours of twelve noon, and four in the afternoon.

WILLIAM P. RICH, Sec'y.

NORTH SHORE HORTICULTURAL SOCIETY.

This society held its regular meeting Nov. 1st, President McGregor in the chair. The report of the show committee for 1907 was read and accepted.

James Salter was awarded a special prize for a seedling anemone flowered chrysanthemum, lavender in color with fine quilled petals.

Eric Wetterlow received a certificate of merit for a fine collection of pompon and anemone flowered chrysanthemums.

The subject for discussion was Nitro-Culture, opened by William Till. Cultures, dried on cotton and in liquid form were used by the speaker to illustrate his remarks, also roots showing nodules; without these nodules a leguminous crop impoverishes the soil of its supply of nitrogen instead of enriching it.

The object of nitro-culture is to inoculate the seed of leguminous plants, or the soil in which they grow, with nitrogen-fixing-bacteria, which collect or enable the plant to collect, free nitrogen from the air and deposit it—through the roots—in the soil for the use of present and succeeding crops. Cultures for any leguminous crop and directions can be obtained free from the Bureau of Agriculture, Washington, D. C., on application. The society extended a vote of thanks to Mr. Karl Kellerman of the Department of Agriculture, Washington, for his courtesy in sending samples of cultures and for information concerning the subject.

DETROIT FLORISTS' CLUB.

The outing of the Detroit Florists' Club to Mt. Clemens last Friday was a great success, and the large number of club members participating was increased by 13 fellow-florists from Toledo, O., who joined in the merry round.

Visits were made to Messrs. J. F. Sullivan, John Breitmeyer's Sons, Robt. Klagge, Taylor, Stevens, Carey, Boeslager, and many interesting features were noted everywhere. Especially noticeable was the good condition of crops, particularly violets, which have been a disappointment for years back. Mr. Klagge's new boiler house with two 16-foot horizontal Atlas boilers was voted the best yet. Mr. Boeslager's new office, erected of cobblestones and fitted out with concrete benches tastily arranged with ferns, etc., was also greatly admired. This excursion lent itself well for some great surprises in the way of showing the club's appreciation for the faithful services rendered by some of its members. Among these was a presentation of a beautiful set of drawing tools to Mr. Dilger through J. F. Sullivan; the former then presented Mr. Sullivan with a gold watch, while Pres. Scribner surprised the watchdog of the treasury, Walter Taepke, with a fountain pen.

On November 19 the local club will hold an exhibition at Harmonic Hall for its members and friends. Any florists desiring to show novelties may do so by consigning them to the Michigan Cut Flower Exchange.

FLORISTS' CLUB OF PHILADELPHIA.

One of the best meetings of the club was held on Tuesday evening. President Hahman was in the chair and all the newly elected officers were present. George Craig was elected treasurer in place of J. Wm. Colflesh, resigned.

A pleasant feature of this meeting was the enjoyable time provided by the new board of officers. Walter P. Stokes spoke on the forcing of lily of the valley. He stated that the main point in successful valley forcing was to secure the best "pips" available; not how cheap but how good must be the watchword. Berlin pips were found to be the most satisfactory in preference to those known as Hamburg. Samples of pips were shown. Two bunches of the forced article were on exhibition, showing the difference in bunching preferred by the New York and Philadelphia markets. Those for the latter were tied up in a more natural way than the New York style demands, where the flowers were bunched in the centre of the leaves and projecting above same.

A vase of Robert Scott & Sons' new rose, Mrs. Jardine, was on hand and much admired.

Chas. Zimmer and Sons, West Collingswood, N. J., exhibited two vases of good commercial varieties of chrysanthemums, Zimmer's Yellow and Mrs. Perrin. The latter variety has the honor of being the only chrysanthemum scoring 100 points, which it did as a novelty before the New York committee of the Chrysanthemum Society of America. It is still admired for its color and form, but in these days it seems to lack size.

Exhibitions at the regular meetings are recommended by President Hahman to be made more of a feature in the future, and he instructed the newly appointed committee on exhibits that each member thereof would be expected to solicit contributions of new, rare or interesting flowers or florists' supplies, etc.

CLUB AND SOCIETY NOTES.

The Cleveland Florists' Club (Ohio), at its next regular meeting, November 11, will hold its annual chrysanthemum exhibition.

The next meeting of the Indianapolis Florist Club will be held November 13 at the Walhalla, 333 E. Washington street. All visiting florists are invited.

The following officers were elected at a recent meeting of the Wood County Horticultural Society at Bowling Green, Ky.: President, J. F. Lundy; vice-presidents, S. S. Vermilya and S. S. Rodgers; secretary and treasurer, I. M. Hower.

Mr. Editor, HORTICULTURE, Boston:

I must say that when you started your paper I did not care about it but either it has improved or else I have, for I look upon it as preferable to either of our western trade journals now. It has been making friends and I hope it will continue to.

Very truly,
K. F.

Wisconsin.

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The fall awakening

Unfortunately for those who would like to attend as exhibitors or as interested spectators the many widely separated fall shows, there are insurmountable limitations of time and space to which all must submit and the most ambitious traveler must content himself with a visit to comparatively few of the pleasant affairs with which this week and the next are crowded. Again, there are many who by reason of location or business confinement, will be deprived of the advantage of attending even one of these events which are so inspiring

and instructive to those who are willing to learn. There is no greater incentive to new aims and activities than the opportunity to see what others are doing and this is not only true in the case of the florist but applies equally to the people to whom the florist looks for patronage. Nothing so awakens the desire to possess beautiful plants and flowers as the opportunity to see them at their best. Here is where the "fall opening" comes in and the retail florist who does not take advantage of this to such extent as his means and opportunities permit, rejects a valuable aid, for there is no better trade stimulant than a well-managed and widely-advertised fall opening exhibition.

A serious plight

President Wm. Dutcher of the National Association of Audobon Societies is authority for the assertion that because of the decrease in birds the United States is losing yearly a sum larger than the capitalization of all the national banks in the country. This statement was made by President Dutcher at the annual meeting of his association in New York City last week, statistics being given to show that eight hundred million dollars' worth of agricultural and horticultural crops are destroyed by insects every year, the destruction being directly traceable to the rapid decrease in the number of insectivorous birds. The savage instincts which thrive on killing as a pastime are allowed entirely too much liberty. The hordes of immigrants of low intelligence which we are admitting are, no doubt, responsible for much of the trouble but not for all. The boy with the shot gun is entirely too numerous and his elders encourage him in the notion that the more lives he can take in a given time the greater his claim to distinction. It is time for the horticultural and agricultural interests to wake up, now that the truth is out, and ally themselves with the game protective associations and other instrumentalities with a view to put a stop, as soon as possible, to this wholesale slaughter of the best friends of the tillers of the soil.

Monuments and trees

The happy outcome of the widespread protest against the proposed destruction of the historic trees that adorn the National Botanic Garden must be interpreted as an expression, through the press and the nation's representative men, of the higher estimation of tree life which is obtaining with the people. It would seem that henceforth sanction for the removal of useful or noteworthy trees to make way for so-called public improvements will not be so readily granted and that it will be necessary to make out a very strong case before such destruction as has been tolerated in the past can be repeated. The lesson has been a slow one to learn but the public are at last coming to a realization of the fact that the penalty for recklessness in forest destruction, bird and animal slaughter and other interferences with the established balance of Nature's operations is not only inexorable but insufferable. We agree with the editor of one New England paper who says that arboricide ought to be regarded as a crime and that every movement calculated to impress the young and inspire public opinion to resistance against the encroachments of those who have no regard for trees other than their value as wood is a true philanthropy. As between a tree which has required half a century to mature and a monument or building which can be constructed in a few months there should be no hesitation. The country is big and there is abundant room for monuments but we have no trees to spare.

THE FASTIGIATE GINKGO.



No. 1.



No. 2.



No. 3.

Dear Mr. Editor:

It is to be regretted that the photographs that I had hoped to have appear in *HORTICULTURE* with the one taken at Washington, D. C., were lost, because the reading matter would have been more understandable if all had been printed in same number. However, Mr. Thomas had kindly made others, which I now send to you with these notes.

The one labeled No. 1 was taken in Girard College grounds on one of the play grounds. Two Ginkgos may be seen in the picture, both of which are



No. 4.

quite distinct, yet which more nearly represent the type than do those in Nos. 2, 3 and 4. These are growing in Fairmount Park, Philadelphia. No. 2 shows the pyramidal form quite satisfactorily on account of more "sky-line" than could be gotten in No. 3, although, as seen growing, this is the better tree. No. 4 is seen in the rear of the Liberty Statue—erected during the centennial year. All the illustrations prove, I believe, that this particular variety of Ginkgo is a selection and has been propagated by grafting or possibly from cuttings.

EDWIN LONSDALE.

DAHLIA CHARLES LANIER.

The sensational dahlia which is the subject of our frontispiece this week was raised from seeds resulting from a number of careful crosses made by A. H. Wingett, gardener on the estate of Charles Lanier at Lenox, Mass., five years ago. At Lenox, Newport, New York and Boston where it has been shown it has been the feature of the exhibition. Our characterization of it as the "Col. Appleton" of the dahlias at the time it was exhibited in Boston, will perhaps carry as good a conception of this magnificent flower as any description we can give. The rich yellow flowers are from 5-1-2 to 7 inches in diameter carried on strong, straight stems high above the foliage and are produced in remarkable profusion. The symmetry and fullness of the blooms are well shown in the illustration. We learn that Mr. Wingett has disposed of his entire stock of this novelty to R. & J. Farquhar & Co., Boston, by whom it will be disseminated to the trade during the coming season.

I get more instruction and benefit from "*HORTICULTURE*" than from any other magazine. J. A. G. Massachusetts.

BEGONIA PERLE DES MULTIFLORES.

Trans. by Hort. Trade Journal.

This variety might at first sight be taken for a member of the *B. semperflorens* section, but it is a tuberous rooted plant with leaves that remind one of *B. Pearcei*. It is an extraordinarily abundant bloomer, the blooms double, and of a light-red tint, and 4-5 cm. in diameter. The height of the plant is about 25-30 cm. and the diameter 30-35 cm. and the stems are very thickly set with small leaves. The plant has an equal value with the well-known *Begonia Lafayette*, and when in full flower it has an even finer effect. Unfortunately there being no pollen, no seeds form, but the plant furnishes cuttings abundantly, which strike and grow readily.—G. Besoke, head gardener with the firm of Ernest Benary, at Erfurt, in *Moller's Deutsche Gartner Zeitung*.

NEXT WEEK.

The next issue of *HORTICULTURE* will contain full reports of several of the most important exhibitions, including those at Boston and Chicago, the latter from the pen of the veteran chrysanthemum enthusiast, John Thorpe.

PERSONAL.

H. L. Belcher, florist, of Winthrop, Mass., and Miss Edith Moses were married recently.

F. Gomer Waterer sailed for England on the Adriatic from New York on November 6.

Last reports from Mrs. A. M. Henshaw, New York, who has been critically ill, are reassuring, and her recovery is now confidently expected.

L. Smith, florist, of Tewksbury, Mass., who was recently married, was given a Halloween surprise party by his Lowell friends, which proved a most enjoyable affair. John Reidy was master of ceremonies.

A CORRECTION.

Some little inaccuracy crept into our "Wireless from Robert Craig," in last week's issue. In mentioning the crotons raised by Edwin Lonsdale, instead of "one seed pod" we should have said "one cross-fertilization," as anyone who has seen crotons fruiting will understand. The topic is, however, otherwise an interesting one, and we hope to present an illustrated article shortly, from the pen of Mr. Lonsdale, giving more in detail his experiences in crossing crotons.

THE EXHIBITION SEASON

RECENT SHOWS.

The New York Exhibition.

The combined exhibitions of the Chrysanthemum Society of America and the American Institute, which opened at the Berkeley Lyceum, New York City, on Wednesday, November 6, was remarkable for the superb quality of the chrysanthemum blooms staged. It can safely be said that the annual meeting of the Chrysanthemum Society has never brought out so fine a display, and much regret was expressed at the entirely inadequate size of the hall, everything being of necessity crowded together so that much of the beauty was lost to the visitor.

Beyond all other exhibits and surpassingly beautiful was the vase of Montigue, incurved yellow, which won the C. S. A. silver cup offered for the best ten blooms, any variety. The exhibitor was Thomas Proctor, gardener to R. W. Paterson, Lenox, Mass. The Lord & Burnham gold medal for best six blooms of any new introduction went to C. H. Totty, who staged the new English variety, W. Moir, white. Other winners of special premiums were Wm. Kleinheinz, gardener to P. A. B. Widener, Phila., vase of ten yellow, with Mrs. Wm. Duckham; three blooms of M. F. Plant (the Stump & Walter prize); six blooms of any new American variety with Lynwood Hall, incurved white (the Nathan Smith & Son prize); twelve blooms of Miss Clay Frick (silver cup). Harry Turner, gardener to Howard Gould, ten each Beatrice May. Wm. Duckham and Col. Appleton (the F. R. Pierson cup); twenty-four blooms in six varieties (the Dreer prize). Wm. Turner, gardener to M. C. D. Borden, twelve blooms in four varieties (the Thorburn prize). John Downing, ten blooms Beatrice May (the Boddington prize). Six blooms Miss Miriam Hankney (the Wells medals), gold medal to C. H. Totty, silver medal to W. H. Waite, bronze medal to Thos. W. Head. Twelve introductions of 1907 (C. H. Totty prize), won by Nathan Smith & Son, with the following varieties: Miss L. H. Corkett, Dakoma, Villa de Paris, Winifred, Miss Clay Frick, Dubuisson Froubert, Henry Hughes, M. Louiseau Rousseau, Mrs. O. H. Pierson, Ongawa, Mrs. Walter Jenks, Pres. Loubet. These were the main features of the C. S. A. section, and the judges were W. N. Craig, North Easton, Mass., and Robt. Cameron, Cambridge, Mass.

In the Institute section the exhibits were also superb. Among the most remarkable were John McNicoll's ten varieties, one bloom of each; Wm. Turner's twenty ditto, and C. H. Totty's thirty ditto; Thos. Proctor's ten blooms in variety; the groups of ten in specified colors in which first prizes went to John McNicoll for Mrs. Partridge, Wm. Turner for Col. Appleton, Wm. Duckham and Nellie Pockett; the classes of six each, specified colors, first prizes going to Thos. W. Head for M. F. Plant, C. H. Totty for Mirza, W. Turner for Ethel Fitzroy, W. R. Church, Cheltoni and Wm. Duckham,

G. H. Hale for Merza, Wm. Duckham, White Carnot, Mrs. E. Thirkell and Mrs. H. Partridge, and Thos. W. Head for John Frazer.

Two specimen plants from Peter Duff, Orange, N. J., were good evidences that this renowned grower had lost none of his skill. There were some splendid displays of pompon varieties from R. Vincent, Jr. & Son, of White Marsh, Md., and anemones from J. J. McNicoll, C. H. Totty and others. A. H. Wingett showed Cosmos Lady Lenox, and John Cook of Baltimore had on exhibition a seedling rose of rich pink color which was greatly admired.

The Tarrytown Exhibition.

Agreeably to its fine record in past years the Tarrytown Horticultural Society put up an exhibition at Music Hall, Tarrytown, N. Y., on Wednesday, November 6, of which any society might be proud. It was not a chrysanthemum show although, of course, chrysanthemums were a prominent factor. The hall was elegantly decorated by L. A. Martin and the exhibition was so large as to rather over-crowd the hall. The front of the stage was banked with pompons, palms, etc., by F. R. Pierson Co., who also added, not for competition, a table of carnations comprising their specialties, White Enchantress, Beacon, Melody and Winsor.

There were in all 375 entries in the various classes, as against 200 last year. The schedule was remarkable for the large number of special prizes.

There were two superb groups of foliage and flowering plants by Mr. Berolzheimer, gardener D. McFarlane, and S. Untermeyer, gardener W. H. Waite, Mr. McFarlane being awarded first and Mr. Waite second. The special class V. (Pierson U-Bar prize) for most effectively arranged table of decorative plants, also brought out notable groups of crotons, dracaenas and drooping grasses from these two experts. The Untermeyer special prize for Lorraine begonias brought out six elegant entries.

A feature of the chrysanthemum bloom section was D. McFarlane's set of twelve varieties in competition for the Archbold prize, the varieties included being Mrs. D. West, F. S. Valis, Ben Wells, Mrs. J. E. Duane, Mrs. F. F. Thompson, Mrs. E. Thirkell, Mrs. Partridge, Morton F. Plant, May Seddon, J. R. Upton, Lady Hopetoun and Glenview.

F. R. Pierson showed a superb specimen of his *Nephrolepis superbissima*.

Scott Bros. showed a handsome red seedling rose, a cross between Killarney and Gen. MacArthur. Col. Wm. Jay, gardener A. L. Marshall, showed a striped sport, from Carnation Lady Lountiful.

The above is only a fragmentary report of one of the best exhibitions of the year. The judges for the first day were Wm. Eckels of Islip, W. C. McCullum, Islip; Jas. McCullum, Paterson, N. J.; and John Grant of Stamford, Conn.

Many of the regular and special

classes were reserved for the second day.

A partial list of the awards follows:

SPECIAL PRIZES.

Society's silver medal for new decorative plant not in commerce. The F. R. Pierson Co. with *Nephrolepis superbissima*. F. R. Pierson prize for 25 blooms each of Winsor, Helen M. Gould and Enchantress. First, silver cup, S. Untermeyer, gard. W. H. Waite; second, Frederick Potter, gard. W. C. Roberts.

CHRYSANTHEMUMS.

Archbold prize for 12 blooms, distinct varieties, height 15 inches. First, Emil Berolzheimer, gard. D. McFarlane; second, Wm. Rockefeller, gard. Geo. Middleton.

Lewis cup for 24 blooms, distinct varieties, height 15 inches. First, D. McFarlane; second, Geo. Middleton.

C. B. Johnson prize for pompons grown outdoors. O. B. Jennings, gard. Oscar Carlson; second, C. H. Wetherbee, gard. Francis Milne.

Nichols prize, for six pot plants, six varieties. First, Henry Siegel, gard. Thos. Atkinson; second, Geraud Foster, gard. E. Jenkins.

Special, for 12 blooms Miss Clay Frick, 24-in. stems. First, E. Jenkins; second, D. McFarlane.

Vaughan prize for six blooms, distinct varieties. First, W. C. Roberts; second, W. H. Waite.

Vanderbilt prize for largest bloom and Osborn prize for 36 blooms, six varieties, D. McFarlane.

A. Johnson prize for vase of 25 blooms. First, W. J. Buckley; second, Thos. Atkinson.

Pierson U-Bar prize for table of decorative plants. First, D. McFarlane; second, Joseph Eastman, gard. Robert Angus.

Julius Roehrs Co. prize for table of orchids and ferns in pots, W. H. Waite.

Dreer prize for collection of stove plants. First, W. H. Waite; second, R. Angus.

Boddington prize for 12 varieties of vegetables grown outdoors. R. & H. Scoville, gard. W. Angus; second, E. Jenkins.

Siegel prize for table of flowering plants and ferns, W. H. Waite.

Untermeyer prize for six plants Begonia Gloire de Lorraine. First, Mrs. Stuyvesant Fish, gard. W. J. Buckley; second, Thos. Atkinson.

Chrysanthemums in pots, D. McFarlane, W. C. Roberts, Thos. Atkinson, W. H. Waite. Other plants in pots, Francis Milne, D. McFarlane, W. H. Waite, W. J. Buckley, J. S. Walquist, H. Nichols, T. Atkinson. On cut blooms of chrysanthemums, W. C. Roberts, five prizes; Howard Willets, gard. A. Weisenberger, H. Bowman and R. Langle were the winners in the violet classes. In fruit, prizes went to J. P. Sorenson, W. H. Waite, Geo. Middleton and H. Nichols, and in vegetables to Walter Angus, E. Jenkins, Geo. Middleton, D. McFarlane, O. Fallon.

Pittsburg Exhibitions.

The fall exhibition in the Schenley Park Conservatories opened November 2, and in spite of the inclemency of the weather was very well patronized. This show is a popular one and in a great measure helps to popularize the chrysanthemum in Pittsburg. Situated as the greenhouses are, in close proximity to the smoky sections of the city, the culture of the chrysanthemum is rendered more than doubly arduous. J. Jones and his staff had on exhibition over 8,000 plants and about 2,000 later varieties in reserve. About 1,500 of those on exhibition are planted, the remainder are in pots. The manner of arrangement is particularly effective; the colors are massed and usually with a background of tall evergreen temperate plants. Large masses of Vivian Morel are particularly pleasing. This variety does well here, being extra well colored. Large masses of Charles Davis make a good show. Cheltoni, F. S. Vallis, Mrs. W. Duck-

ham, Golden Gate and Golden Age, all good yellows, are used to advantage. Some of the best pinks are M. Loiseau Rousseau, Mm. Armand Detroyat, which is a fine light pink, Leila Filkins, Reine Wilhelmine, Kinkora, Beatrice May, Orizaba, Mayor Weaver, which is a great favorite here and the popular trio, Balfour, Enguehard and Duckham. May Seddon is a very large white. Large masses of Nellie Pockett were noticed and some well developed Mrs. H. C. Frick. A majority of the flowers are of a good size and quality, some particularly large; the largest of all is a mammoth flower of Mary Ann Pockett, bronze. In other compartments are many things worthy of mention, chief amongst these are the nepenthes which are really a fine sight; the *Cattleya labiata*, *Lilium Harrisii*, crotons and *Nephrolepis Whitmani*. The stove plants are looking particularly well, and in the reserve or growing houses are many good things, notably some healthy plants of *Phalaenopsis*. The management of these conservatories deserves great praise for the efficient manner in which these gigantic structures are run. The people of Pittsburg are particularly fortunate in having an opportunity to study plants and flowers in such variety and on such an elaborate scale.

At the Peacock greenhouses, North Highland avenue, Superintendent T. P. Jenkinson has an exhibit of chrysanthemums, begonia and orchids of a high grade of quality, the chrysanthemums being splendid examples of cultural skill and the arrangement a triumph of executive ability. Over 3,000 plants are grown; the flowers of the majority are above the average in size and finish. Amongst the finest are Lady Cranston, Lady Lennard, Miriam Hankey, President Viger and Beatrice May, all pink, Mrs. Geo. Hunt and Rose Lawrence, yellow, and Reginald Vallis a fine cerise. The usual standard varieties, including Col Appleton, Cheltoni, Balfour and Duckham, are well grown. The orchid house is of special interest to visitors and contains some well flowered plants of *Odontoglossum grande*, *Cattleya labiata* and *Percivaliana*. The Begonias Gloire de Lorraine are fine plants, just coming into flower; a little late for the present exhibition but will make a splendid show later.

J. HUTCHINSON.

Morris County Gardeners' and Florists' Club.

The Madison Flower Show, viewed from whatever point, was a big success. Wm. Duckham and Arthur Herrington, usually the largest exhibitors, were unable to show on account of deaths in the immediate families of their employers, but their identity was not lost. Mr. Herrington decorated the stage in his usual masterly manner and Mr. Duckham put up the central group, a centre piece of a fine palm with single chrysanthemums in many colors and hues. The quality of the exhibits was better than ever in all classes. The big fluffy chrysanthemum blooms pleased the public most. The biggest thing in them was in Class 7, 24 blooms in 24 varieties, 12 inch stem. The first prize was \$50.00 cash. A large number of entries came. Chas. H. Totty was 1st; Wm. Turner, Oceanic, 2nd; Wm. F. Lyons of Mor-

ristown, 3rd. It was the hardest class to decide. The margin was close and Turner gave Totty the race of his life. The O. H. Kahn silver cup for two vases of pink and white chrysanthemums was won by John Downing, "Brooklawn," Morris Plains. That, too, was a well-earned prize, as the judgment was very close.

Other classes were well filled and when the judges were ready for lunch it was three o'clock P. M. They earned their meal. Amongst the first prize winners in chrysanthemums were: John Downing, James Frazer, C. H. Totty, H. B. Vyse, Peter Duff, A. R. Kennedy, and Wm. F. Lyons. In roses, L. A. Noe, L. B. Coddington, Frank L. Moore, Wm. G. Badgley, Edw. Reagan and Wm. Inglis. The carnation exhibits were better in quality and more numerous than ever before, there being 58 entries. Edw. Reagan was first in the Farquhar Special, with Robt. Craig, Rose Pink Enchantress and White Perfection. A. R. Kennedy was first in Vaughan's Special with Victory. John Downing won the F. R. Pierson prize for Winsor. Wm. Inglis won Class 33 and C. H. Totty Class 34. One of the finest things in the show was a vase of new carnations, Afterglow, from Daille-douze Bros., which got certificates of merit. This vase of 50 Afterglow sold at auction at the close of the show for \$7.00. In the winning classes of carnations were invariably White and Rose Pink Enchantress, Robt. Craig, Victory and White Perfection. In the groups of chrysanthemum plants and foliage plants 50 sq. ft., John Downing came out first, winning the Pierson U. Bar Co. prize. These groups are always well contested and are the best features in the show. Taste in arrangement shows up strongly in the winning. Violets were scarce, and only a few exhibits were on hand, Peter Duff and Wm. S. Herzog were winners. Peter Duff brought fine specimen plants. He won first prize with John Downing a close second. Vegetables were better than last year. James Frazer got the Poddington and the Burnett prizes and H. B. Vyse the Henderson prize. Lager & Hurrell's collection of orchids was an especial feature the general public could not fully appreciate, as it contained many rare specimens. A. B. Kennedy had a dozen well flowered *C. labiata*.

The single varieties of chrysanthemums were very striking, grown naturally, no disbudding. They were in pleasing contrast to the great Goliaths that were so numerous throughout the show. In the opinion of good judges the best chrysanthemums of 1908 introduction shown were W. W. Moir, pure white; Mary Donnellan, deep yellow; Mary Mason, cerise and bronze; Mrs. N. Davis, white; J. H. Broomhead, rose; and Mrs. W. Wells, a bronzy red. There are some more good ones, but these seem to be the cream.

United Bay Shore Horticultural Societies.

The sixth annual show was held on Nov. 1 and 2, with a fine display of flowers, fruit and vegetables. While the number of chrysanthemums was possibly not quite as large as last year, the blooms surpassed anything yet shown. S. T. Peters and Louis Bos-

sert had the finest displays of this flower. Mrs. C. A. Schierer won the silver cup for best six varieties of vegetables, and showed the best vegetables grown from Thorburn's seeds. Other competitors were H. G. Timmerman, W. B. Cutting, W. Dick, F. H. Kalbfleisch, J. Kempster, J. H. Dick, E. P. Strong, Mrs. J. Gibb. The judges were Peter Duff, Orange, N. J.; Wm. Turner and N. Rutterbach, Oceanic; Robt. Angus, Tarrytown.

Monmouth County Horticultural Society.

The annual exhibition of this society was held on October 30 and 31, at Red Bank, N. J., with the usual array of fine plants and blooms that are always produced here, together with many novelties, among which were cosmos by William Turner, and seedling chrysanthemums by W. W. Kennedy, the latter taking the special Hartshorne prize. H. A. Kettle won the Hartshorne prize for 25 carnations. A. Bauer, gardener at the O'Day estate, was first in chrysanthemum group. Other successful exhibitors were Wm. Turner, N. Butterbach, G. Hale, M. Tierney, Geo. R. Kuhn, Wm. Dowlen. The judges were C. H. Totty, of Madison, Peter Duff, of Orange and Jas. Ballantyne, Tarrytown, N. Y.

New Haven County Horticultural Society.

The exhibit of the New Haven County Horticultural Society in Music Hall, New Haven, Conn., which is in progress as we go to press, presents a fine display from a general viewpoint. In the group of plants and cut flowers and display of seeds, bulbs, tools and garden fixtures, F. S. Platt Co. took the prizes. David Kydd was first in group of foliage plants as in several other classes. Robert Patton, O. Carlson, Henry Cliff, J. H. Murray, J. P. Sorenson are other prize winners. E. Jenkins, Lenox, Mass., again won the Scoville challenge cup, which now becomes his property. A fuller report will be made next week.

San Diego Floral Association.

The San Diego Floral Association opened their three days' flower show in Germania Hall, San Diego, Cal., on October 25 with an address by Mayor Forward. The exhibits were attractively arranged, and among the commercial growers were G. F. Otto, Coronado Nursery, K. Sessions, E. Benard and Oceanside Floral Co., all of whom are among the prize winners. The attendance was unusually large and the exhibition was a decided success financially.

COMING SHOWS.

St. Louis Horticultural Society.

The program and premium list for the flower show to be held at St. Louis, Mo., on November 12th to 15th has been received. On the first day the Shaw premiums aggregating \$500 for decorative foliage and flowering plants, chrysanthemums in pots, etc., will be awarded; also the S. A. F. medals and the premiums for cut chrysanthemums, roses and carnations and floral displays amounting to nearly \$500. The second, third and fourth days provide

for special exhibits with equal liberality. Copies of the prize list can be obtained from Otto G. Koenig, secretary, 6471 Florissant avenue, St. Louis.

The following have been mentioned at length in preceding issues of **HORTICULTURE**:

Florists Club of Washington (D. C.), Nov. 12-14. Chas. McCauley, 18th and Kearney Sts., Washington, D. C., secretary.

Horticultural Society of Buffalo, Buffalo, N. Y., Nov. 11-17. J. H. Tranter, P. O. Box 994, secretary.

St. Louis Horticultural Society, Grand and Park Aves., St. Louis, Mo., November 12-15.

Montreal Gardeners' and Florists' Club, Chrysanthemum show, Nov. 13-14, Victoria Rifles Hall, Montreal, Que. W. H. Horobin, 283 Marquette St., secretary.

Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Nov. 12-15. David Rust, secretary.

State Floral Society of Arkansas, Little Rock, Nov. 14-16. Chas. Vestal, secretary.

Annual flower show, Waco, Texas, Nov. 13-16. Capt. J. D. Shaw, President.

Worcester County Horticultural Society, Chrysanthemum show, Worcester, Mass., Nov. 14. A. A. Hixon, secretary.

Lake Geneva Gardeners' and Foremen's Association, Lake Geneva, Wis., Nov. 15, 16. Albert Meier, Lake Geneva, Wis., Sec'y.

Ontario Horticultural Exhibition, Massey Music Hall, Toronto, Ont., Nov. 12-16. H. B. Cowan, Parliament Building, Toronto, secretary.

November 16 is the date selected by the Toledo Florists' Club, Ohio, for their chrysanthemum show.

Denison Civic Improvement League, Denison, Tex., Nov. 20-22. T. W. Larkin, secretary.

Maryland State Horticultural Society, Fifth Reg. Armory, Baltimore, Dec. 3-4. T. B. Symonds, College Park, Md., secretary.

The chrysanthemum show of the Columbus Florists' Club (Ohio) will be held on November 12. Two special prizes of \$3 each will be given for the best 6 and 12 cut blooms.

LOCAL AND FLORISTS' SHOWS.

November 2 was observed as Chrysanthemum Day at the experiment station, Burlington, Vt.

Highland Park Conservatories, Rochester, N. Y. Chrysanthemum exhibit during November.

The display of chrysanthemums by Henry Barton, Westfield, Mass., surpasses anything in that locality.

Julius Dubois, New Orleans, La., is holding his customary chrysanthemum show with some magnificent blooms.

The second annual show of C. Peterson & Sons, Escanaba, Mich., closed

on November 4 and was satisfactory to both visitors and the firm.

John Schoonmaker & Son, 94-100 Water St., Newburgh, N. Y., had a magnificent display of chrysanthemums from October 19-29.

Lincoln Park greenhouses, Chicago, are open from November 3-13, for public inspection of the chrysanthemums which are very promising this season.

The annual exhibition of chrysanthemums, orchids and foliage plants at the Central Park Conservatory, New York City, will begin Nov. 9, and continue for a month.

In the greenhouses at Eastside Park, Paterson, N. J., in charge of John Prince, about 2,000 chrysanthemums have been displayed since Oct. 31. The show closes on Nov. 10.

The conservatories of W. T. Hanson, Schenectady, N. Y., were opened to the public on Nov. 2 for the benefit of the Hospital Fund, and the choice collection of rare plants was admired by throngs.

Preparations for the Tournament of Roses at Pasadena, Cal., are under way. The executive committee consists of Messrs. George P. Cary, F. S. Allen, F. V. Rider, Hugh E. Montgomery, Kingsley N. Stevens and Edward T. Off.

The annual show of chrysanthemums at Elizabeth Park greenhouses, Hartford, Conn., is now on and a large crowd of visitors is in attendance every day. The chrysanthemums are under the care of Peter Zuger, the park florist.

TREES AND LIGHTNING.

The trees most apt to be struck by lightning are those that conform most naturally to the law of electrical motion—that electricity moves along the path of least resistance. Flammarton, the great French scientist, published in 1905 a list of different kinds of trees, showing the number of times each species had been struck by lightning during a given period. The figures are: 54 oaks, 24 poplars, 14 elms, 11 walnuts, 10 firs, 7 willows, 6 beeches, 4 chestnuts, but not a single birch.—The Reader.

INCORPORATED.

Kirkeby & Gundestrup Seed Co., Chicago, Ill., by Marius Kirkeby, Knud Gundestrup, A. E. Ray; capital, \$50,000.

The Farmers' Nursery Co., at Phoenix, Ariz., by A. C. Smith, E. M. Miller, A. T. Snow; capital stock, \$100,000.

The Fairview Floral Co., Beatty, O., by C. H. Kay, Mary S. Kirkpatrick, G. D. Leedle, A. K. Hahn, C. E. Glenn; capital stock, \$10,000.

MOVEMENTS OF GARDENERS.

James Niven has taken a position with H. E. Botkin, Ross Station, Calif.

THE VALUE OF ART AND SKILL IN INDUSTRY.

A paper read by Carroll D. Wright at Massachusetts Agricultural College, Oct. 2, 1907.

To create is the province of the Omnipotent. The divine power creates the raw material; it makes the ore, but it does not undertake to develop the ore. God has given to man the brain and the skill of hand which enable him to make the watch. Thus God begins things, and leaves it to the skill He has given to man to finish them. It is omnipotent power only that brings into existence the beautiful and grand effects of nature, as witnessed in mountain and valley, river and lake. Natural scenery cannot be produced by the very highest skill of created man, but God does not in all this make the picturesque; it takes His power as represented in the ingenuity, the skill, and the taste of man to make the picturesque. Nature and man create the art side of nature. This developing power of man is a great attribute, and it allies man to his Creator. Thus in all the things that enter into material, intellectual, and aesthetic progress are the co-ordinate works of the Creator and His grandest creation—man. Herein lies the very fundamental principles, the God-given basis of all technical training.

Training was not sufficiently diffused to have its effects on the industrial arts. Art in its highest sense belonged to the few; it was exclusive, and persistently held as exclusive, so that the man of general affairs, the common man, the great body of humanity, had neither any knowledge of the art which projected grand structures in the past nor the skill to carry out the projects.

Science means knowledge, a comprehension of facts and principles. All training therefore which develops the ingenuity of man belongs to the realm of science. All technical training thus becomes one of the grandest elements of the purest science. Science means the application of brain power, of skillful ingenuity, to the affairs of life, to the development of practical things, and this means the real utilities which are necessary for development. Let us speak of this part of our subject first.

We must understand the application of science in every direction. We must know how to develop. We must take the raw pigments out of which the colors are produced and apply the skill which comes from a knowledge of effects. This principle has been applied in mechanics, in agriculture, in artistic design, but perhaps more than in all other things in the great engineering enterprises of the past half century. We do not know what powers were used, or how they were used in constructing the Pyramids, but I doubt if there was skill enough in the whole world at the time the Pyramids were built to have constructed the Mont Cenis tunnel.

In the mechanical arts there is a specific illustration of what can be done by technical training. I do not speak particularly of manual training in the public and private schools, but more specifically of trade and technical training. Manual training is without definite purpose; its motive is to ac-

custom the minds and the hands of boys and girls to the use of tools, but not to teach them any particular trade. The graduates of manual training schools more easily adapt themselves to trades and semi-professions belonging to the mechanic arts than those who have not had manual training. Manual training does a vast deal of good and little or no harm, but the technical training which is illustrated here in your own college is something different. It is aimed to secure a definite purpose—to teach a man how to conduct his brain and his hand to those lines in mechanic arts which will give him superiority over those who have not had such training.

When the exposition celebrating our centennial was held at Philadelphia in 1876 there was brought together the manufactures of the different producing countries of the world. Germany then acquired an active interest in industrial and manual training; and so did England. Bismarck inquired of the officer in charge of the German exhibit at Philadelphia as to the effect of the comparison of German goods with those of other countries. The reply was: "Our goods are cheap and wretched." Germany had become the military equal of France, but she was not her industrial equal. France for years had been applying skill and the results of technical training in trades and in all industrial arts in her manufacturing establishments, through schools first supported by private benefaction and then by the government. France stood out at the centennial as superior to all other countries in those manufactured goods which displayed skill and training. Germany took her cue from this and immediately entered upon a career which has brought her to the front rank in the production of goods both useful and artistic. England took her cue also. She had been fearing the competition of France. She had sneered at the technical training which had been in vogue in France, but she found out all at once that in order to preserve her industrial supremacy she must not only be the equal of France in artistic designing and in the training in the application of superior skill, but that she must rise above France—that she must surpass her in all things in which France had gained her celebrity. Then began the crusade for the establishment of training schools, the inauguration of manual training and industrial education in every direction, and England for a while held her supremacy. Other countries—Italy, Austria, the Scandinavian countries, Switzerland—applied skilled training in ordinary manufactures.

Then the United States began to see the truth. Light was beginning to dawn, and while for years after the centennial our country was content to take from English manufacturers, from French establishments, from German institutions, from the world of skill and art, men who could conduct our own industrial affairs along the lines which have given them distinction, today you may take from a hardware establishment or a manufactory of machinery common tools and machines and send them to any exposition in Europe and win a prize in competition with tools and machines which have been especially manufactured for exhibition. This application

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of skill and art in the United States has brought us to our position today of industrial supremacy, and it has now brought us within the last few years, to the grand position of commercial supremacy in the world.

Everywhere now in the United States we are seeing the effect of industrial training. This grows out of the necessity as well as the desire to secure wealth.

All the grand movements of our time, which are the movements of great communities, are carried on by inventive skill, by the application of ingenuity, and these things teach us the absolute necessity of knowing how to do something and to do it well. The grand summation of the value of skilled training is therefore found in our modern system of industry. I do not care how well educated a man may be, if he has not learned how to make his education useful, if he has not learned how to support himself and his family as a result of his education, he is an ignorant man.

Do you wish to be dependent upon foreign countries for the skill necessary in the manipulation of all these great forces? Can you not train among you the men who can build your own railroads, locomotives, steamships, and tunnels, develop iron mines, and bring that alliance of industry, agricultural and mechanical, out of which alone can come prosperity? Develop your trade so that you have at your doors the cash market for your products. It is this that makes a community wealthy; it is this alliance that has made the per capita wealth of some parts of our country greater than that of other parts.

In discussing these things the question is usually asked, But what about what may be called the spiritual forces of life? I do not use the word in any pietistic sense, but because I have not a better one to illustrate these things which do not belong to the material utilities of our environment. The relation of what is called the modern system of industry, which is the industry that grows from technical knowledge, to intellectual stimulation, and even to the force it exercises in developing our schools and higher institutions of learning, is not usually understood; in fact I believe that by many the present order of things growing out of industrial education is supposed to have a dwarfing influence upon intellectual and mental attainments. I think, however, that

this supposition arises from a superficial examination of modern establishments of industry where a cheap and often an ignorant body of laborers is employed, the appearance being that skilled and intelligent workmen are constantly replaced by unskilled and unintelligent workmen, this appearance leading to the false conclusion that the modern system of industry brings the skilled and intelligent workman down in the scale of civilization. The student of sociology reaches a directly opposite conclusion. To him the modern system gives the skilled and intelligent workman an opportunity to rise in the scale of employment, in intellectual development, in educational acquirements, and in the grade of services rendered, while at the same time it enables what was an unskilled and unintelligent body of workers to be employed in such ways, under such conditions, and surrounded by such stimulating influences that they in turn become intelligent and skilled and crowd upward in the scale into the positions formerly occupied by their predecessors.

It is the very province of technical skill, as illustrated in our modern system, to reach down and lift up those employed in the lowest occupations. This means mental activity, and mental activity is the great element of our own time. Formerly all competition consisted of muscle against muscle, or brain against muscle. Today competition is between brain and brain, skill and skill. There are many who cannot withstand the requirements of skill. They naturally fall in the rear; they become what has been called left-over men; they cannot keep up in the race, largely because in their younger days they did not have the advantage of the mental training which is being given broadcast everywhere today, and mental training allied to manual work has been found the soundest method of preserving a sound mind in a sound body.

Trade education, technical education, manual training—every feature of instruction in the mechanic and industrial arts—are efficient elements in the reduction of crime, because they all help to better and truer economic conditions. I sometimes think that in this lies the elements of solution of some of our problems. Justice to la-

(Continued on page 614.)

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ROMAN HYACINTHS at reduced price to close out.

PER 1000 SEEDS

Asparagus plumosus nanus seeds \$2.25

Asparagus plumosus robustus seeds 2.50

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Bulbs of all kinds, native and foreign.

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Selected White and Light Shades;
Selected Mixed Colors and Named
Varieties of Exceptional Beauty.

Write for Prices

ARTHUR COWEE

Gladiolus Specialist

Meadowvale Farm, BERLIN, N. Y.

CATALOGUES RECEIVED.

B. W. Stone & Co., Thomasville, Ga.
—Fruit Guide and Catalogue for 1908.
Paper-shell pecans a specialty.Samuel C. Moon, Morrisville, Pa.
Folder of seedlings and cuttings of deciduous and evergreen shrubs and trees for lining out.

Peter Lambert, Trier A. Mosel. List of nursery stock, principally roses, 1907-1908. Of the latter the list is very comprehensive; we did not count them but there must be fully one thousand roses described. As a reference book, this catalogue will be found very convenient by the rose fancier.

Seed Trade

The meeting of the Wholesale Seedsmen's League seems to have resulted in framing a list of prices that will be a genuine surprise to those who still cling to the illusion that there are bountiful crops of everything in the seed line. But even these prices are not really as high as conditions would warrant, albeit as high as the concentrated wisdom of the leading wholesalers think advisable at this time. The regular January lists will more nearly reflect the real situation.

Slowly the truth about the shortage in sugar corn is penetrating through the craniums of the seedsmen and canners, particularly the latter, and prices that would have aroused their ridicule four weeks ago, are now paid with surprising alacrity. Even yet the real condition of the 1907 crop is only dimly realized. But enough has been said and the sequel must be awaited, as the doubting Thomases must be shown.

What a transformation in only one year—yes, in six months! Only as far back as last April both seed corn and canned corn were scorned by all. Both were selling below cost of production. Stowell's Evergreen could be bought at considerable under a dollar per bushel, and the canned corn at about 50c. per dozen. Now the latter sells readily at 90 and 95c., and the seed—well, it may not be judicious to say just at what prices it is selling, but the advance is even greater than on the canned article, and the end is not yet, and the advance will continue as the demand develops. This demand is certainly growing, but will not reach high water mark for some weeks yet. It will materialize more slowly than the demand for seed peas. Conditions regarding peas are now fairly well known, and there is a lively scramble to cover shortages which is slowly gathering momentum, and will soon be at its height. The mills of the seedsmen are beginning to grind and in a few weeks will be humming merrily.

Bulbs now hold the center of the stage; but a few weeks more and they will be displaced and the regular seed trade hold sway.

Clark Nitbeck of Schenectady has sold out his seed business to his brother, who will continue and push the business. With intelligent, energetic effort he should build up a fine trade, as he is practically the only seedsman in that town of 75,000 people.

It is reported that one or two of the California seed growers are growing or buying onions at Greeley, Colo., which they are shipping to California. As the soil and climate of this section of Colorado seems well suited to the crop it may be the means of saving the situation when the supply of bulbs in California proves insufficient. It is certainly a long way in advance of resorting to "picklers" which are simply the largest bulbs screened from onion sets.

Investigation during the past week of the condition of the sugar corn crop of Connecticut, confirms the most pessimistic views expressed in these columns at any time, and a condition



Lilium Auratum as Occasionally Grown in Japan.

equally as serious as that of 1903 confronts all interested parties. Very little of the 1907 crop of the large growing late varieties will make seed, a large proportion of it still being in the milk, and much of it in fairly good condition for the table. It of course goes without saying that such corn can never make seed, while even the most matured is yet soft and will require artificial heat to cure it. Very few of the seed corn growers have any way of applying artificial heat and as a consequence very little seed will be made from this year's crops. A prediction of \$10 per bushel for Stowell's Evergreen of good vitality seems within measurable distance of realization.

Reports of heavy rains in the bean growing districts of California and of consequent damage to the crop have been floating in for the past week, but definite information has not been received, and all are warned against ac-

(Continued on page 612).

ST. DAVIDS Late-Dug Harrisii

Guaranteed pure bulbs. No long-
iflorum adulteration

SIZE 5 to 7, 400 in a Case. \$15 00 Case

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12 WEST BROADWAY, NEW YORK

OFFER DIRECT IMPORTATIONS

JAPAN LILIUM LONGIFLORUM.....	7-9 inch,	300 per case
JAPAN LILIUM MULTIFLORUM.....	6-8 inch,	400 "
" " " " " " " " " " " "	7-9 "	300 "
" " " " " " " " " " " "	10-11 "	150 "
" " " " " " " " " " " "	11-12 "	80 and 120 per case
" " " " " " " " " " " "	11-13 "	100 "
" " " " " " " " " " " "	12-13 "	70 "
JAPAN LILIUM GIGANTEUM.....	7-9 inch,	300 and 280 per case
" " " " " " " " " " " "	9-10 inch,	200 per case
" " " " " " " " " " " "	10-11 "	140 "
JAPAN LILIUM AURATUM.....	10-11 "	to arrive soon
SPECIOSUM MAGNIFICUM.....	10-11 "	"
" " " " " " " " " " " "	11-12 "	"

**BAMBOO CANES, 5-6 feet long, fine, strong and well packed
AT REASONABLE PRICES**

We also have a limited surplus of French Roman Hyacinths, 12-15 cm; Paper White Grandiflora 12-13 cm and 13-up cm; Lilium Harrisii 5-7 and 7-9 in.; Chinese Sacred Lilies; Cycas Stems; Raffia, etc.

POSITIVELY NO ORDERS FILLED FOR LESS THAN CASE LOTS

THE QUALITY OF OUR JAPAN LILIES IS UNSURPASSED

VINCA SEED

Mr. Florist, do you know the right time to sow Vinca seed is right now.

	Trade pkt.	Per oz.
Vinca Alba, white, with rose centre.....	\$0.15	\$0.50
" " Pura, pure white.....	.15	.50
" " Rosea, pink.....	.15	.50
" " Mixed.....	.10	.40

BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation. **BODDINGTON'S CHRISTMAS WHITE.** A grand companion to Christmas Pink.

10c per oz.; ¼ lb. 30c; ½ lb. 50c; 1 lb. 75c.

Our Fall Bulb Catalogue now ready. If you have not already secured one, send a postcard today. It contains a full line of bulbs and flower seeds.

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My GIANT CYCLAMEN

Are ahead in growth and flowers. Bloodred, Carmine, Pink Pure White, White with Carmine Eye.

Each color separate. Tr. pkt., \$1.00; 1000 seeds, \$6.00. An even mixture of the above 5 colors tr. pkt., 75c.; 1000 seeds, \$5.00. For larger quantities, special quotations.

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Blue List of Wholesale Prices mailed only to those who plant for profit.

BAMBOO CANES TOUGH AND STRONG

6 ft. long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

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Best Quality Fall Bulbs

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent upon request. Catalogues now ready.

VICK'S SUPERB PANSY SEED

All the best varieties in separate colors

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Cauliflower's CABBAGE

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CYCLAMEN

Farquhar's Giant Strain

Unsurpassed for size of flowers.

Giant Crimson Giant Pink
Giant White Finest Mixed
Giant Excelsior, White with
Claret Base

100 seeds, \$1.25; 1000 seeds, \$10.00.

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HIGH GRADE French and Dutch BULBS

For prompt shipment, our Fall Bulbs Catalogue sent on request.

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS.

SEED TRADE.

(Continued from page 611)

cepting California estimates of damage. With the recent exaggerated estimates of damage to the onion seed crop fresh in mind, people in the east must have proofs of all damage reports emanating from California. While admitting that damage may have followed the rain the extent of it is not known at present.

Canner's peas continue to advance in price, a sale of several hundred bushels of Alaskas being reported within a few days at \$5.50 per bushel. Advancers and Horsfords are being offered by a few dealers in a moderate way at \$5.50. Few Admirals are being offered, and still fewer Surprise.

Some information concerning beans is coming to hand and confirms earlier reports of damage by frost and wet weather. Hand picking will prove a costly job, many growers estimating it from 40 to 60 cents per bushel, while the shrinkage will range from 30 to 40 per cent. Were it not that a large surplus was carried from last season beans would now be in the class with peas and corn, but while they will be materially higher than last year prices on standard varieties will not be extravagantly high.

Conflicting reports of the Maine potato crop continue to circulate but there is little doubt that it is much more than half of last year's and of very poor quality.

It is certain that New York and other states will be heavily drawn on for seed stock this coming season.

Few seedsmen have either time or inclination to enter the field of politics, but H. W. Gordinier, the genial Troy dealer who has been treasurer of his bailiwick for the past two years, is a candidate for reelection and his many friends will wish him success and an increased plurality.

A large number of cases of lily bulbs are reported short-shipped on S. S. Empress of China. This will make Giganteum and Speciosum (quite a quantity) about two weeks later than usual. However, as Easter comes later next year, we do not anticipate any trouble in the forcing. The short-shipped bulbs left on S. S. Iyo Maru and are now en route from Seattle to New York. Giganteum prices have advanced 20 per cent. according to latest cables from Japan.

Lily of the valley coming on S. S. America, due in New York on the 9th, will be, we believe, the first arrival or nearly so—at any rate none has arrived yet, so far as we can find out. Two weeks' delay is caused by very bad weather in Germany.

New York importers now have to stand in line and get the real yellow bills from their banks for duty. It's tough, because banks will not pay out the cash every day.

NEW VEGETABLES.

Among the interesting tests of new and foreign varieties of vegetables reported by the Long Island Agronomist from the Wading River Experimental

Station, are the Sakurajima radish from Japan and the Venetian squash. The former in its native country, it is said, grows to weigh 20 to 30 pounds. This radish, while so perfectly enormous, is said to be most delicate and delicious; peeled and sliced thin it cannot be surpassed by the most dainty spring radish. It grows best during the summer and may be kept until late in the fall if buried in sand in a cool cellar.

The Venetian squash resembles in shape a huge acorn in its cup. The color is dark green with occasional white stripes, weighs 17 pounds; the flesh a rich golden yellow. The seed cavity is small and the flesh thick; flavor particularly rich and creamy.

PUBLICATIONS RECEIVED.

Bulletin No. 288 of the New York Experiment Station at Geneva gives attention to "Ringing," which is a practice sometimes employed to apparent advantage in vineyards, as by it the bunches of grapes are in some cases made larger and earlier. It seemed feasible to apply the same practice to herbaceous plants, but tests made upon tomatoes and chrysanthemums at the Station at Geneva proved the theory fallacious. With neither class of plants was there any gain in yield, increase in size or hastening of maturity; but in nearly every case the ringing was detrimental. So marked was the injurious effect in many instances, especially upon the root systems of the plants, that the authors are led to doubt whether the practice is not more injurious than useful, even upon grape vines where the apparent advantage is most evident. These tests are recorded in Bulletin 288 of the Station, which will be sent free to applicants.

Bulletin No. 289 gives some interesting fertilizer tests. Many old orchards are undoubtedly in need of good applications of fertilizers; but not all orchards need potash and phosphoric acid. The old apple orchard at the New York Agricultural Experiment Station at Geneva is typical of many orchards in Western New York, and in this orchard liberal applications of wood ashes and acid phosphate, extending over 12 years, did not give profitable increases in yields. Neither did these applications improve the color of the fruit uniformly or profitably. The orchard did respond to the use of leguminous green manuring crops, and showed marked benefit from a system of clean cultivation. Full details of these tests are given in Bulletin No. 289 of the Station, which can be secured on application, without charge.

Bulletin No. 290 says: Careful potato growers can no longer doubt the advantages of spraying in "blight" but some doubt whether the practice is profitable year after year. Tests along this line have been continued for five years by the Experiment Station at Geneva; and the evidence presented in Bulletin No. 290, giving details of the fifth year's test and summaries of preceding ones, seems conclusive in favor of the practice. The gain each year has been profitable; and there is already much more than enough excess of gain over cost to pay for spraying five years more. Similar gains, though

not quite so great, were obtained by farmers under tests carefully checked by the Station and by much larger numbers of farmers who sprayed independently. If you grow potatoes, it will pay you to get this bulletin from the Station—it costs you nothing, not even postage—and study it carefully before your crop management is planned for next year.

Water Lilies and How to Grow Them, by H. S. Conard and Henri Hus. Published by Doubleday, Page & Co., New York. The more cultural chapters have been supplied chiefly by Mr. Hus, with the co-operation of the veteran cultivator, Mr. James Gurney, of St. Louis. The remaining chapters dealing with the relative merits of the different varieties of nymphaeas, also the lists for special purposes, are mainly by Professor Conard who has devoted much time to the study of this family.

With this book, we think anyone who has not before had any critical understanding of the family will be able to make selections of such varieties as will best suit his special needs and to make this selection intelligently. Further than this, cultural methods, raising from seed, planting out and wintering, are explained in detail. The making of artificial ponds and the conversion of natural water courses for water-lily gardens are also handled. The discussions of site and the treatment of the pond or pool in relation to its surroundings should also be helpful to many.

The tabular analyses at the ends of Chapters VII, VIII and IX will enable anyone to quickly identify any water-lily now in the trade, and form, we think, one of the most interesting features of the book.

"Water Lilies" is number five in the Garden Library series and is sold at the same price as its predecessors—\$1.21 post paid. We can supply it at publisher's price.

Bulletin No. 53, Bureau of Statistics, U. S. Dept. of Agriculture, compiled by George K. Holmes, Chief of Division of Foreign Markets, gives complete tables of the domestic exports of farm and forest products for the years 1904-1905-1906, with the countries to which product was consigned and the value of same. There is a vast amount of interesting information in this 68-page pamphlet relative to our export trade with foreign markets.

Proceedings of the Alabama State Horticultural Society, Fourth Annual Meeting.—A very interesting volume, its contents indicating that ornamental horticulture and forestry are receiving a due proportion of the society's attention, which is not the case with all State Horticultural Societies. A number of half-tones illustrate how the subject of horticulture is presented to the students at the Alabama Polytechnic Institute.

Fire in the building occupied by the seed distribution division of the Department of Agriculture, Washington, caused damage amounting to \$75,000, November 6. The loss included destruction of seeds, which will delay for several weeks the distribution of flower and vegetable seeds through Government sources.

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Duchesse de Parma. \$1.25 per 100, \$10 per 1000.
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Yellow Prince. \$1.00 per 100, \$8.50 per 1000.

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Parrots. Named, four best sorts. \$1.25 per 100. All colors mixed, \$1.00 per 100, \$7.50 per 1000.

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Count of Leicester. \$1.00 per 100, \$7.50 per 1000.
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Gloria Solis. \$1.50 per 100, \$12.00 per 1000.
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Murillo. \$2.25 per 100, \$19.00 per 1000.
Rose Blanche. \$1.00 per 100, \$8.00 per 1000.

NARCISSUS

Empress. Extra sized bulbs, \$1.75 per 100, \$15.00 per 1000.
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Golden Spur. Extra sized bulbs, \$1.75 per 100, \$15.00 per 1000.
Grandee Maximus. \$1.25 per 100, \$10.00 per 1000.
Horsfieldi. \$1.50 per 100, \$12.50 per 1000.
Princes. Extra sized bulbs, 75c. per 100, \$6.00 per 1000.
Double Von Sion. First sized bulbs, \$1.25 per 100, \$9.00 per 1000; extra sized bulbs, \$1.50 per 100, \$12.00 per 1000; double-nosed bulbs, \$2.00 per 100, \$18.00 per 1000.

Alba Plena Odorata. 75c. per 100, \$5.50 per 1000.
Orange Phoenix. \$1.25 per 100, \$10.00 per 1000.
Paper White Grandiflora. \$1.25 per 100, \$9.00 per 1000.
Mrs. Langtry. \$1.00 per 100, \$7.00 per 1000.
Incomparable Stella. 75c. per 100, \$5.00 per 1000.
Poeticus Ornatus. 75c. per 100, \$6.50 per 1000.

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Separate Colors. Single, \$2.50 per 100; double, \$2.75 per 100.
Fine Named. A fine selection of varieties, our selection, \$4.00 per 100.
Miniature, or Dutch Romans. A fine assortment of the best named varieties, \$1.75 per 100.

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Finest Named Varieties. Baron von Brunow, David Rizzio, Mont Blanc, La Majestueuse, Mammoth Yellow, Purpurea Grandiflora, Queen of the Netherlands, and Sir Walter Scott. 60c. per 100, \$4.00 per 1000.

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Grand New Double Daisy

A sport from that great money-making single variety, **QUEEN ALEXANDRA**, that everybody grows to a good profit. You can do better with this. The flowers are large, averaging three inches in diameter, and none of the flowers comes single at any time of the year. It blooms freely, either under glass or outdoors. Young stock, out of 2½-inch pots, ready for delivery January 1, \$25.00 per 100.

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Just arrived, in fine condition,

Cattleya Trianae (new district).
Oncidium varicosum Rogersii.

Write for prices.

JOSEPH A. MANDA, 191 Valley Road, WEST ORANGE, N. J.

LET US QUOTE

on your wants in **Callas, Paper White Grand, Narcissi**, 13 cm. up. All Dutch Bulbs, Wood Moss.

D. RUSCONI, 128 West Sixth Street
CINCINNATI, OHIO

THE FINEST

Lily of the Valley Excellenta

From cold storage. Only few cases left. Please order at once. \$32.00 per case of 2000 fine pips.

JOHN SCHEEPERS & CO.

4 & 6 Old Slip, - - NEW YORK.

ORCHIDS

The largest importation of Orchids ever received in this country **WILL ARRIVE** next spring from Brazil, Colombia and Venezuela. If you intend putting in stock **wait for these to arrive** and we will quote the **LOWEST PRICES IN AMERICA.**

ORDONEZ BROS.
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THOUSANDS OF ORCHIDS

In sheath, bud and flower.
Write for particulars and catalogue.

JULIUS ROEHRS COMPANY,
Rutherford, New Jersey.

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Arrived in perfect condition **Cattleya Mossiae**, also **C. Schroderae**, **Laelia anceps**, **Epidendrum vittellinum**, etc., etc. Write for prices.

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JAPANESE
THE YOKOHAMA NURSERY CO. NEW YORK.
31 BARCLAY STR. NEW YORK.
LILIES
PLANTS
BAMBOO STAKES

THE VALUE OF ART AND SKILL IN INDUSTRY.

(Continued from page 600.)

bor, equitable distribution of profits, instruction in trades by which a man can earn his living outside of a penal institution, the practical application of the great moral law in all business relations, which is as much the result of skilled training as anything else—all these elements, with a more enlightened treatment of the criminal when apprehended, will lead to a reduction in the column of crime, but not probably to the millennium; for human experience from time immemorial tells us that the earth never was, nor is, nor ever will be a heaven, nor yet a hell, yet the endeavor of right-minded men and women, the endeavor of every government, the endeavor of every element of industrial training, should be to make the earth less a hell and more a heaven.

In the olden time the works of the great masters were enjoyed only by the few. Today industrial art, skill, and scientific training have resulted in the reproduction of all these things, so that now the common man is more familiar with the works of the great masters than were the few in the olden time. They have been reproduced in various forms, and they teach their lessons. The wage earner reaps the rewards of his work. He is enabled to cultivate the beautiful, to a small degree it may be, but in whatever degree, it is greater than of old. These reproductions are giving the people an opportunity to learn and to know and to enjoy more fully and more completely, and thus add to the delight of living.

If industry today had nothing more to do than the furnishing of the simple necessities of human life, it would have little field for expansion, and would offer meagre opportunities for employment. Life would be a burden, so dull and monotonous would it be. Trade, as we understand it, would cease, and commerce become a thing practically unknown. But industry flourishes because it is not limited to the production of things that are needed for food, raiment, and shelter. It is because art has come in to increase the wants of the race that trade and commerce flourish. Art carried industry beyond our actual wants, and calls upon it to supply those things which make for social progress. The future expansion of industry and commerce, the future elevation in the character of the employment of all classes, the increase of their earning capacity, the opportunity of increasing the standard of their environment—all depend in large measure upon the cultivation of the industrial arts, and the cultivation of these arts depends upon the adequacy of the training which institutions of learning shall furnish.

In what I have said you must not understand me as abrogating in the slightest degree the necessity for classical education. Every man is better for knowing something of the classics; every man is better for having read and studied the great thoughts of great men in different languages. He can bring to his own practical life the inspiration which comes from the experience of the past, but the man who is contented to live in the past

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retrogrades and cannot be considered as a factor in the great development of the present. Bring all these things into closer relation. Let the farmer know what occurred in ancient times; let him understand the industrial history of the world; let him understand how out of his ranks there have been drawn some of our greatest leaders; let the mechanic, let the man who simply lays bricks, understand the state of his art, the principles of his art. Men are better for knowing the art side of their crude and homely industry. It makes life more worth living; it makes education more valuable, and it brings to every community that which it most needs; all the elements to enhance its social well-being.

THE PINE TREE BLIGHT.

White pine in New England was quite generally attacked last summer with a peculiar blight which the Government has been investigating without so far solving the mystery. S. T. Dana, one of the officers concerned in the investigation by the Department of Agriculture, in a report states that the disease is very widely spread throughout New England, and it occurs practically everywhere south of the White Mountains. In most places only a few scattered trees are attacked by the blight, although in a few localities as many as 10 to 20 per cent. of the trees are affected by the disease. Brunswick, Me., appears to have suffered severely. Another badly affected locality is Eliot, Me. The report states that the disease has suddenly made its appearance in very widely separated localities all at once. The present situation, says the report, is not one that calls for alarm, but simple for further investigation.

You will find something worth reading on every page of HORTICULTURE.

DECISIONS OF THE U. S. BOARD OF APPRAISERS.

No. 17137.—Sea Moss.—Protest 269612 of M. Herman & Co. against the assessment of duty by the collector of customs at the port of New York. Before Board 1, October 22, 1907. Opinion by McClelland, G. A.

Protest sustained as to sea moss. G. A. 6464 (T. D. 27670) followed.

No. 17138.—Wreaths and Crosses of Moss.—Protest 269315 of J. J. Buchey & Co. against the assessment of duty by the collector of customs at the port of New York. Before Board 1, October 22, 1907. Opinion by McClelland, G. A.

Wreaths, crosses, etc., composed of rock moss, dyed and prepared, were held to have been properly classified as unenumerated manufacturing articles under section 6, tariff act of 1897. G. A. 3146 (T. D. 16317), G. A. 3384 (T. D. 16956), and Abstract 7775 (T. D. 26655) followed.

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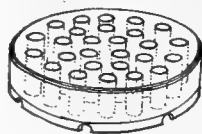
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20c per lb., and you get from 1000 to 1100 to the lb. Ten lbs. or over, 15c per lb. Write for prices on larger quantities.

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No.	Top.	Deep	Price
1	13½	12	\$1.00
2	14½	14	1.25
3	16	16	1.50
4	19	18	2.00
5	21	20	3.00
6	25	22	4.00
7	25½	24	5.50

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NEWS NOTES.

The Northampton Nurseries have
opened a retail department in North
ampton, Mass.

A. J. Town, formerly of Tonawanda,
N. Y., has taken a position with J. M.
Gasser Co., Cleveland, O.

David Lumsden has been appointed
superintendent of the greenhouses of
the New Hampshire State College,
Durham, N. H.

Wm. Kiefaber, Sr., of Dayton, O.,
was stricken with apoplexy on October
28, while driving to the greenhouses
of the Miami Floral Company in which
he has an active interest.

Committees of the two cut flower
markets in Boston have met and
agreed to co-operate in an exhibition
to be held during the coming season
at a date to be selected at a later con-
ference.

The annual visit of the Boston retail
florists, buyers, etc., to Waban Rose
Conservatories, Natick, Mass., on in-
vitation of the company, was enjoyed
on the afternoon of November 3.
Messrs. Alex. Montgomery and Alex.
Jr., extended a hearty welcome to the
visitors and a lavish collation was
provided in the large work-room which
was elegantly decorated and illumi-
nated for the occasion.

NEW RETAIL STORES.

Fred Reynolds has opened a retail
flower store in New Bedford, Mass.

The Rosery Flower Shop, under the
management of E. F. Meany and E. P.
Tracey, 76 Maiden Lane, Albany, N. Y.

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	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	Oct. 29		Nov. 4		Nov. 5		Nov. 7	
ROSES								
Am. Beauty, Fanc and Special...	35.00	to 40.00	25.00	to 35.00	to 25.00	20.00	to 25.00
" Ex tra.....	20.00	to 30.00	17.00	to 20.00	15.00	to 20.00	15.00	to 20.00
" No. 1.....	10.00	to 15.00	.....	to 12.00	10.00	to 15.00	12.00	to 15.00
" Lower grades.....	6.00	to 8.00	.....	to 8.00	5.00	to 10.00	4.00	to 8.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	6.00	to 8.00	5.00	to 8.00	5.00	to 8.00
" " " Low.gr.	4.00	to 5.00	4.00	to 6.00	3.00	to 4.00	3.00	to 4.00
Liberty, Richmond, Chat may F&S	6.00	to 8.00	6.00	to 8.00	5.00	to 8.00	4.00	to 8.00
" " " Lower grades.	4.00	to 5.00	4.00	to 6.00	3.00	to 4.00	1.00	to 2.00
Killarney, Wellesley, Fan. & Sp...	6.00	to 8.00	6.00	to 8.00	5.00	to 8.00	6.00	to 8.00
" " " Lower grades	4.00	to 5.00	4.00	to 6.00	3.00	to 4.00	2.00	to 4.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 4.00	3.00	to 5.00	2.50	to 3.00	2.00	to 2.50
Ordinary.....	1.00	to 2.00	1.50	to 3.00	1.50	to 2.00	1.00	to 2.00
MISCELLANEOUS								
Violets.....	.75	to 1.50	.50	to .75	.....	to 1.00	.50	to .60
Cattleyas.....	50.00	to 60.00	35.00	to 60.00	.....	to 60.00	.....	to 50.00
Lilies.....	12.50	to 16.00	12.50	to 17.00	.....	to 15.00	10.00	to 12.50
Lily of the Valley.....	3.00	to 5.00	3.00	to 5.00	3.00	to 5.00	2.00	to 4.00
Gladioli.....	.....	to 1.00	.....	to 2.00	.....	to 2.00	2.00	to 4.00
Chrysanthemums, Fancy.....	25.00	to 30.00	25.00	to 30.00	20.00	to 25.00	12.00	to 18.00
" Ordinary.....	6.00	to 15.00	8.00	to 12.00	1.00	to 2.00	4.00	to 8.00
Adiantum.....	.75	to 1.50	.75	to 1.00	1.00	to 1.50	.50	to 1.50
Smilax.....	12.00	to 18.00	12.50	to 15.00	15.00	to 20.00	8.00	to 12.00
Asparagus Plumosus, strings.....	35.00	to 50.00	50.00	to 60.00	to 50.00	to 50.00
" " " & Spren. (100 bchs.)	35.00	to 55.00	25.00	to 35.00	to 50.00	20.00	to 50.00

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FLOWER MARKET REPORTS

BOSTON Market conditions are in bad shape this week. The demand has fallen off greatly within the past few days and prices have gone to pieces so far as large lots of flowers are concerned. The higher grades suffer the most, and after being held in wholesale hands for a day or two are often sold finally in bulk with the inferior grades to the curbstone fakir, and of course at a very low figure. The Beauty trade, in common with everything else, is very quiet and sales have to be forced at cut rates. Carnations, which up to last Friday were well in hand, have come since then in an avalanche and many market growers have had to carry their product home, morning after morning, the effort to sell having been futile. Of violets there is, fortunately, no surplus, and these usually clean up daily. A limited quantity of sweet peas, new crop, is being received and these sell readily at about \$1.00 a hundred. Chrysanthemums of the moderate priced grades—say from six to eight dollars a hundred—sell fairly well, especially Ivory and other good commercial whites. Lily of the valley very slow and irregular.

INDIANAPOLIS It is not always the unexpected that happens, and last week was but the repetition of conditions which pervade the market annually when chrysanthemums become plentiful enough to block the sale of other stock and of themselves. Prices have not suffered to any great extent up to the present time, all varieties moving off nicely. Beauties and teas are holding their own, some good stock being on the market. Carnations are very scarce, but enough are being secured to meet the demand. Violets are not plentiful. Lily of the valley and orchids in quantity are being used largely. The local men have made big use of Southern smilax lately, sometimes not being able to obtain enough to meet requirements. Smilax is about the only scarce article in greens.

NEW YORK The wholesale cut flower district is in a very uncomfortable state at present. The receipts of flowers are very heavy and the demand is comparatively light. Quality is excellent, as a rule, on all lines. The higher grades of roses are superb and carnations are fast approaching elegance of flower if still rather short of stem. Chrysanthemums are at their best. But, to sell this fine material, sacrifice offers must be made and the net returns are far below what they should be. The lower grade flowers are unloaded for what they will bring, and it requires lots of dicker and argument to turn them into cash. The conditions now prevailing are not greatly different from what they have been in the middle of the chrysanthemum season on some occasions in the past, but it is natural to ascribe some of the stagnation to the strained money market, which, added to the excitements of election week, could not have other than a demoralizing effect on flower buying. The exhibitions which are now under way will deplete the sources

of supply to some extent and will help the situation to some extent, but nobody looks for any great activity in business this side of Thanksgiving Day.

PHILADELPHIA Business last week was fairly good but lacking the snap that should prevail at this season of the year. Chrysanthemums are now at their height. Demand is good but prices rule low. The better varieties of pompons clean up the best of all. Roses are about normal with a little too many for the demand, if anything. Cattleyas have shortened up considerably. White orchids very scarce. Gardenias are now plentiful with excellent demand. Violets have been very good, particularly double Lady Campbells. Carnations are rather draggy but quality is excellent. Lily of the valley in good demand and excellent quality. Sweet peas are now coming in regularly but as yet are rather short-stemmed. Mignonette just commenced, also very fine snapdragon for so early. Greens draggy.

TWIN CITIES Business at present times is fairly good. Chrysanthemums are abundant enough to supply all demands. Stock in general is in a promising condition. The planting of bulbs is about done. Other outdoor planting still carried on and will be as long as the ground keeps open. October has been remarkably fine.

NEWS NOTES.

Raymond, the young son of C. H. Jacobs of Westfield, Mass., is reported to be quite ill at Noble hospital.

The greenhouse of F. L. Lainson, Council Bluffs, Iowa, was destroyed by fire on October 27. The loss was about \$2,500; insurance, \$300. Mr. Lainson will rebuild at once.

The extensive grounds around the Pearsall mansion at Black Rock, Conn., are being laid out and planted by F. E. Conine of Stratford, who has the contract for the landscape work.

The barn of Alfred Hunt, florist, of Norwich, Conn., was burned to the ground on October 21, destroying about two hundred and fifty dollars' worth of supplies on which there was no insurance. The greenhouses were saved.

The department of botany of Wellesley College, Mass., has received a gift of \$500, which will be applied to the systematic study of plants grown on the college grounds. Work will begin at once under the direction of Prof. Wiegand.

By the will of the late O. B. Hadwen of Worcester, Mass., his estate which comprises 24,684 square feet of land with buildings, and is valued at \$20,000, is left to Clark University and College to be forever kept for the purpose of educating students in agricultural, horticultural and arboreal knowledge, scientific and practical.

OBITUARY.

Peter Weissenberger.

Peter Weissenberger, a Swiss gardener in the employ of H. C. Walbeck, Louisville, Ky., died on October 30.

Richard Purdue.

Richard Purdue, father of George Purdue, florist of E. Orange, N. J., died on October 26, aged 81. Mr. Purdue came to America in 1849, and from 1852 to 1893 conducted a florist's establishment. A widow, two sons and three daughters survive him.

Hugh Chesney.

Hugh Chesney, who for fifteen years has carried on a florist's business in Farmington, Conn., died on October 13. Mr. Chesney was well known to the trade in Boston and New York and held an enviable reputation among his townspeople for reliability. A widow, three daughters and a son survive him.

Alexander Aikman.

Alexander Aikman, who has been connected with The Garden, London, Eng., since 1900, died on October 19 after an illness of but a few days. Mr. Aikman's wide experience in gardening was gained in the Royal Gardens, Kew, Cardiff Castle Gardens, and several famous nurseries. He was in his thirty-second year and leaves a widow and child. By his genial disposition he made many friends.

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

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CINCINNATI, OHIO—Frank W. Ball, 31 East 3d St.
DETROIT, MICH.—Frank Danzer, 1437 15th St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
MONTREAL, P. Q.—Gabriel Vrengde, 27 Ontario Ave.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
PITTSBURG, PA.—James Hutchinson, corner Dunmoyle and S. Negley Aves.
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	Last Half of Week ending Nov. 2 1907	First Half of Week beginning Nov. 4 1907		Last Half of Week ending Nov. 2 1907	First Half of Week beginning Nov. 4 1907
Roses			Carnations, Fancy and Novelties.	1.00 to 2.00	1.00 to 2.00
Am. Beauty, fan and sp.	10.00 to 20.00	10.00 to 20.00	Ordinary .....	..... to .50	..... to .50
" extra	5.00 to 8.00	5.00 to 8.00	Violets .....	.40 to .60	.40 to .60
" No. 1	3.00 to 5.00	3.00 to 5.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" Lower grades .....	..... to 1.00	..... to 1.00	Lilies	3.00 to 6.00	3.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp	1.00 to 4.00	1.00 to 4.00	Lily of the Valley.....	1.00 to 2.00	1.00 to 2.00
" lwr.grds. ....	..... to .50	..... to .50	Gardenias.....	8.00 to 33.00	8.00 to 33.00
Liberty, Richmond, fancy & special	1.00 to 4.00	1.00 to 4.00	Chrysanthemums, Fancy.....	8.00 to 20.00	8.00 to 20.00
" lower grades ..	..... to .50	..... to .50	Ordinary	2.00 to 4.00	2.00 to 4.00
Killarney, Wellesley, fan. and spec.	1.00 to 4.00	1.00 to 4.00	Adiantum	1.00 to 1.25	1.00 to 1.25
" lower grades.	..... to .50	..... to .50	Smilax	8.00 to 10.00	8.00 to 10.00
			Asparagus Plumosus, strings..... to 40.00 to 40.00
			" & Spren. (100 bchs.) to 10.00 to 10.00

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Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties

and are dealers in

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	CINCINNATI Oct. 2'	DETROIT Nov. 4	BUFFALO Oct. 29	PITTSBURG Nov. 4
ROSES				
Am. Beauty, Fan. and Sp.	to 25.00	to 25.00	to 25.00	to 25.00
Extra	15.00 to 20.00	30.00 to 35.00	12.00 to 20.00	12.00 to 15.00
No. 1	10.00 to 12.50	25.00 to 30.00	8.00 to 10.00	6.00 to 10.00
Lower grades	6.00 to 8.00	8.00 to 12.00	3.00 to 8.00	..... to 4.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	8.00 to 12.00	7.00 to 10.00	5.00 to 8.00
Liberty, Richmond, Chateau, F. & S.	3.00 to 4.00	4.00 to 6.00	2.00 to 7.00	3.00 to 4.00
Lower grades	6.00 to 8.00	8.00 to 12.00	6.00 to 8.00	5.00 to 8.00
Kaiserin, Carnot, Fan. & Sp.	4.00 to 5.00	4.00 to 6.00	2.00 to 6.00	3.00 to 4.00
Lower grades .....	..... to .....	..... to .....	..... to .....	..... to
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	8.00 to 12.00	8.00 to 10.00	5.00 to 8.00
Lower grades	4.00 to 5.00	4.00 to 6.00	5.00 to 6.00	3.00 to 4.00
CARNATIONS				
Fancy and Novelties .....	..... to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00
Ordinary	1.00 to 2.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
MISCELLANEOUS				
Violets .....	.50 to .75	.50 to .75	.60 to .75	.75 to 1.00
Cattleyas	40.00 to 50.00	50.00 to	40.00 to 50.00	40.00 to 50.00
Lilies	15.00 to 15.00	15.00 to 17.50	4.00 to 15.00	15.00 to 18.00
Lily of the Valley	3.00 to 5.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Chrysanthemums, Fancy	15.50 to 25.00	20.00 to 30.00	15.00 to 20.00	15.00 to 25.00
Ordinary	8.00 to 10.00	6.00 to 12.00	5.00 to 10.00	4.00 to 12.00
Adiantum .....	..... to 1.00	1.50 to 2.00	.50 to 1.00	1.00 to 1.50
Smilax	12.00 to 15.00	15.00 to	12.00 to 15.00	15.00 to 18.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 75.00	40.00 to 50.00	50.00 to 50.00
" & Spreng. (100 bchs.) .....	..... to 25.00	20.00 to 30.00	25.00 to 50.00	30.00 to 40.00

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dysart, 28 State St., Boston.
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ACHYRANTHES

Achyranthes, yellow, 2 1/4 in., 2c.; 3 in., 4 1/2c.
Hammerschmidt & Clark, Medina, Ohio.

ADIANTUMS

Adiantum Hybridum, 2 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Pro., Highland, Ulster Co., New York.

ANTIRRHINUMS

Snapdragon Queen of the North, 3 1/2 in. pots, in bud and bloom, \$1.00 per 100. Alonzo J. Bryan, Washington, New Jersey.

ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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J. Lambert, 150 Nassau St., New York, N. Y.
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ASPARAGUS

Asparagus Sprengeri, 2 1/4 in., 1 1/2c. Fine. Hammerschmidt & Clark, Medina, Ohio.

Asparagus Sprengeri, field grown, \$4.00 and \$6.00 per 100. C. Winterich, Defiance, Ohio.

Asparagus nanus and Sprengeri, 2 in., ready for a shift, 1-1-2c. U. G. Hargle-rode, Shippensburg, Pa.

Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100; \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa.; or Wm. F. Kasting Co., 385 Elliptic St., Buffalo, N. Y.

OUR SPECIALTY.

Asparagus plumosus, Asparagus Sprengeri and smilax.

Wholesale and retail.

Pleasant View Greenhouses. A. L. Warner, Prop., 102 East St., Pawtucket, R. I. Tel. 535 L.

AUCTION SALES

Wm. Elliott & Sons, 201 Fulton St., New York.

Auction Sales of Conifers, Hardy Shrubs, Etc.
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Sales of Decorative plants, Carnations, etc., every Tuesday and Friday. If you cannot attend send bids and shipping instructions. Catalogues on application. N. F. McCarthy & Co., 84 Hawley St., Boston.

AZALEAS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
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BAMBOO CANES

Stump & Walter Co., 50 Barclay St., New York.

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Yokohama Nursery Co., 31 Barclay Street, New York.
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Ralph M. Ward & Co., 12 W. Broadway, New York.
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BAY TREES.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEGONIAS

Begonias, flowering; 6 varieties, 3 in., 4 1/2c. Fine for Christmas trade. Hammerschmidt & Clark, Medina, Ohio.

BOILERS

BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOXWOOD

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
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BUILDING MATERIAL

BUILDING MATERIAL of all description for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.
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J. M. Thornburn & Co., 33 Barclay St., New York.
Roman Hyacinths; Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
White Roman Hyacinths.
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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.
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James Vick's Sons, Rochester, N. Y.
Fall Bulbs.
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D. Rusconi, 128 W. Sixth St., Cincinnati, O.
Callas, Narcissi, Dutch Bulbs.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Tulips, Hyacinths, Narcissi, Crocuses.
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Aug. Rolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs.
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John Scheepers & Co., 4 and 6 Old Slip, New York.
Lily of the Valley Excellents.
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Wm. Elliott & Sons, 201 Fulton St., New York.

St. Davids Late-Dug Harrisii.
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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

CARNATIONS

Field Grown

F. Dorner & Sons Co., Lafayette, Ind.
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Chicago Carnation Co., Joliet, Ill.
Carnation Andrew Carnegie.
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The H. Weber & Sons Co., Oakland, Md.
Seedling Carnation Toreador.
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Surplus Carnation plants: Enchantress, Lawson, Queen, Fair Maid, Rose-Pink Enchantress, Victory, etc. For information write Peirce Bros., Waltham, Mass.

Rooted Cuttings

John E. Haines, Bethlehem, Pa.
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CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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Nathan Smith & Son, Adrian, Mich.
Chrysanthemum Golden Glow.

October Frost, the best early white Chrysanthemum, strong stock plants, \$1.00 doz. Clementine Touse, 75c. doz. C. H. Ketcham, N. S. D., South Haven, Mich.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2 1/2 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

CHRYSANTHEMUMS.

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Cinerarias, finest strain from best English and German sources, 2 in. pots, strong, \$1.50 per 100. Cash. E. Fryer, Johnstown, Pa.

COCOS WEDDELIANA

Peter Henderson & Co., 35 & 37 Cortlandt St., New York.
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COLEUS

Coleus, all kinds, fine, 2 1/4 in., 1 1/2c. Hammerschmidt & Clark, Medina, Ohio.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Oak Hill Nurseries, Roslindale, Mass.
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Bay State Nurseries, North Abington, Mass.
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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

We Have Them.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 1741 N. 18th St., Philadelphia.
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DAHLIAS

David Herbert & Son, Atco, N. J.
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A. B. Davis & Son, Purcellville, Va.
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DAISIES

The Fernery, 1421 Charles St. N., Baltimore, Md.

New Double Daisy.
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White Marguerite Daisies, 2-in. pots,
\$2.00 per 100. E. O. Perry, Berlin, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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Anton Schultheis, College Point, N. Y.
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J. Lambert, 150 Nassau St., New York.
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EVERGREENS

Evergreens for window boxes. Handsome little trees, well furnished. Norway Spruce, Retinosporas, Irish Junipers, Pines and Arborvitae 12 to 30 inches high. Write for prices. Maurice J. Brinton, Christiana, Pa.

FERNS

A. Leuthy & Co., Roslindale, Mass.
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Nephrolepis Whitmani.
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Henry A. Dier, 714 Chestnut St., Phila.

FERTILIZERS

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
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FLORISTS' GREENING PINS

Wm. Schlatter & Son, Springfield, Mass.
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We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
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Koral Mfg. Co., 26 Hawley St., Boston.
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We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

FLORISTS SUPPLIES

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Decorative Evergreens.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Thos F. Galvin, 124 Tremont St., Boston.
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Julius A. Zinn, 2 Beacon St., Boston.
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J. Breitmeyer's Sons, Miami and Gratiot Aves., Detroit, Mich.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Wm. L. Rock Flower Co., 1116 Walnut St., Kansas City, Mo.
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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
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Robert G. Wilson, Fulton St. & Greene Av., Brooklyn, N. Y.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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FORGET-ME-NOTS

Forget-me-nots, 100,000 Strong Stocky Plants, alpestris blue and white, Victoria, Robusta grandiflora, Eliza Fanrobert, \$2.50 per 1000. Gustave Freytag, Hilltop Pl., W. Orange, N. J.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
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Finest green and bronze Galax in any quantity at lowest figures. N. F. McCarthy, 84 Hawley St., Boston.

We Have It.
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H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.
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J. L. Moore, Northboro, Mass.

Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

Augusta gladioli, and white and light. Rowehl & Granz, Hicksville, L. I., N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury St., Boston.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GLAZING PUTTY

Benjamin Hammond, Fishkill-on-Hudson, New York.
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GRADING AND PLANTING

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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

D. Hiffe, 49 Washington St., N., Boston
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouse, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

J. A. Payne, 260-274 Culver Ave., Jersey City, N. J.
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I. Cassidy, 215 to 221 Randolph Ave., Jersey City, N. J.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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In writing to Advertisers kindly mention Horticulture

GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Leid & Burnham, 1133 Broadway, N. Y.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
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Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Fancy Ferns.
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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY HERBACEOUS PLANTS

Bay State Nurseries, N. Abington, Mass.
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New England Nurseries, Inc., Bedford, Mass.
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HEATING TROUBLES CURED

W. W. Castle, 170 Summer St., Boston.
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HEMLOCK BRANCHES

G. H. Higgins, 125 Atlantic St., Atlantic, Mass.

HOLLYHOCKS

Double hollyhocks, 6 separate colors, from field, \$2.00 per 100. C. G. Hargle-rode, Shippensburg, Pa.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

INSECTICIDES.

Nicotidie kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil.
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Carman's Anti-pest.
Perfection Chemical Co., Flushing, N. Y.
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Benjamin Hammond, Fishkill-on-Hudson, N. Y.

Slug Shot; Grape Dust.
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IRISES

We have 100,000 Japan irises, the finest collection in this country. Rowehl & Granz, Hicksville, L. I., N. Y.

Iris pallida Dalmatica, fine lavender blue, the largest and finest variety of all the German Irises; divisions, \$15.00 per 100. Cash with order J. A. Peterson, Westwood, Cincinnati, Ohio.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.
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Ralph M. Ward & Co., 12 W. Broadway, New York.
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JAPANA CUT FLOWER HOLDER

M. V. Garney, 130 So. Wabola Av., La Grange, Ill. Dept. O.
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We Have Them.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

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Atlanta Floral Co., Atlanta, Ga.
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F. J. Hauswirth, 232 Michigan Ave., Chicago.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.
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Julius A. Zinn, 2 Beacon St., Boston.
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Wm. L. Rock Flower Co., 1116 Walnut St., Kansas City, Mo.
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Thomas Young, Jr., New York.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LOBELIAS

LOBELIA KATULEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 12 W. Broadway and 227 Greenwich St., New York.
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MUSHROOM SPAWN

100 lbs. best English, \$6; 250 lbs. at 5½c.; brick prepaid, 22c. J. J. Styer, Concordville, Pa.

NEW AND RARE PLANTS

Rose Hill Nurseries, New Rochelle, N. Y.
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NICO-FUME

Kentucky Tobacco Product Co., Louisville, Ky.
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John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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New England Nurseries, Bedford, Mass. Shrubs, Roses and Herbaceous Perennials. Specimen Pyramidal Box.
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The Conard & Jones Co., West Grove, Pa. Hardy Stock.
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Bay State Nurseries, N. Abington, Mass. Herbaceous Perennials, Hardy Ornamental Trees.
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H. A. Jackson, Portland, Me. Oaks, Pines, Deutzias.
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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

Red Rose Farms and Nurseries, G. C. Watson, Trustee, 839 Market St., Phila. Shrubbery: Clearing Sale.

P. Onwerkerk, 216 Jane St., Weehawken Heights, N. J.
Holland Nursery Stock for Forcing.
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Asparagus, three year old, large Japanese Barberry and Itoha Privet. Paper Birch, Catalpas, Russian Mulberry, Sycamores, Golden and Carolina Poplar, Sugar and Norway Maples, Sycamore Maple seedlings, Erie and Rathbun blackberries. Norwich Nurseries, Norwich, Conn.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England. Importers, Exporters, Growers, Hybridists
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A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
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Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

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PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Giant pansies, \$2.50 per 1,000. U. G. Harglerode, Shippensburg, Pa.

Choice pansy plants, 50c. per 100; \$4.00 per 1000. Cash. Aug. Zirngiebel, Needham, Mass.

100,000 Pansy Plants assorted Var. named, \$3 per 1000; Giant flowering mix., \$2.50 per 1000. Gustave Freytag, Hilltop Pl., W. Orange, N. J.

Pansies. The world's finest mixture. good size for planting in cold frames, \$2.50 per 1,000. Transplanted, \$4.00 per 1,000. Cash. E. Fryer, Johnstown, Pa.

PATENTS

Siggers & Siggers, Washington, D. C. For page see List of Advertisers.

PEAT

Orchid peat, Rotted peat, Azalea peat, Leaf-Mould, Live Sphagnum moss, Baled Sphagnum moss, Green Clump moss, etc. Jobbers' list on application. C. W. Brownell & Co., Walden, N. Y.

PEONIES

Peonies and Perennials; Peony, Phlox and Evergreen Manuals, 25 cents each, in stamps. C. S. Harrison's Select Nursery, York, Nebr.

PHOENIX ROEBELINI SEED

Yokohama Nursery Co., 31 Barclay St., New York. For page see List of Advertisers.

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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT AND TREE TUBS

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PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y. For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primulas Forbesi and obconica, 2-in., ready for shift, 11-2c. U. G. Harglerode, Shippensburg, Pa.

5,000 Chinese primroses, fringed, double and single, 4 1/2 in. pots, mixed colors, extra strong plants, 3c. each. Try them. Primula obconica, 4 1/2 in. pots, bud and bloom, 4c. each. Alonzo J. Bryan, Washington, New Jersey.

PRIVET

Privet Amurensis, all sizes. Write for trade list. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

RAFFIA

Samples free. Large assortment of colors. R. H. Comey Co., Camden, N. J., or, 810-824 Washburn Ave., Chicago.

We Have It.

Send for New Illustrated Catalogue. H. Bayersdorfer & Co., 1129 Arch St., Philadelphia, Pa.

RHODODENDRONS

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Low-budded roses, No. 1, \$95.00; No. 1 1/2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Crimson Ramblers, extra strong, 3-yr., for forcing, at 9 cts. Gilbert Costich, Rochester, N. Y.

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O. V. Zangen, Hoboken, N. J. Cyclamen Seed.

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. I.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

We Have It. Send for New Illustrated Catalogue.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia, Pa.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hppard, Youngstown, O. For page see List of Advertisers.

VEGETABLE PLANTS

Asparagus, 1-year roots, \$2.50 per 1,000. U. G. Harglerode, Shippensburg, Pa.

Tomatoes for forcing, 2 1/2 in. Comet, \$2.50; Lorillard, \$2.00 per 100. Roney Bros., West Grove, Pa.

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VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

VINCAS

Vinca var., field grown, large clumps, \$5.00 per 100. U. G. Harglerode, Shippensburg, Pa.

VIOLETS.

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Dorsett Violets, \$2.25 per 100. Cash. Wm. Schaffer & Son, Dover, Del.

3900 Princess of Wales field clumps, \$4.00 per 100. Violet man. A. B. Campbell, Cochranville, Pa.

Violets, 3,000 A-1 field grown Marie Louis, \$4.00 100. Cash. This is fine, healthy, clean stock. Frank Berry, Stillwater, Minn.

Violets—30,000 strong, healthy, field-grown Campbell and California No. 1, at \$2.50 per 100; \$20 per 1,000. No. 2, good plants, at \$1.50 per 100; \$12 per 1,000. Satisfaction guaranteed or money returned. None better. The California, extra large and fine clumps, packed to Carry Safely. I have shipped over 10,000 already with entire satisfaction. Chas. Black, Hightstown, N. J.

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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

We Have Them. Send for New Illustrated Catalogue.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia, Pa.

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USEFUL BOOKS.

We can supply the following books,
postpaid, at the prices listed:—

The American Carnation. C. W.
Ward. Price, \$3.50.

Chrysanthemum Manual. Smith.
Price, 40 cts.

The Dahlia. By L. K. Peacock.
Price, 30 cts.

Dwarf Fruit Trees. Waugh. Price,
50 cts.

Manual of the Trees of North Amer-
ica. C. S. Sargent. Price, \$6.00.

The First County Park System. F.
W. Kelsey. Price, \$1.25.

The Horticulturist's Rule-Book.
Bailey. Price, 75 cts.

The Chrysanthemum. Herrington.
Price, 50 cts.

How to Make Money Growing Vio-
lets. Saltford. Price, 25 cts.

The New Cyclopedia of America Hor-
ticulture. L. H. Bailey. Six large
quarto volumes; 146 full-page plates;
25,000 plant names; \$25.00 in payments
of \$1.00 down and eight monthly pay-
ments of \$3.00 each, or cash payment
of \$23.75.

Daffodils-Narcissus and How to Grow
Them. A. M. Kirby. Price, \$1.10.

Commercial Violet Culture. Dr. B.
T. Galloway. Price, \$1.50.

Water Gardening. Peter Bisset
Price, \$2.50.

Lawns and How to Make Them.
Leonard Barron. Price, \$1.10.

Roses and How to Grow Them. By
Many Experts. Price, \$1.10

HORTICULTURE PUB. CO.,
11 Hamilton Place, BOSTON

WANTS, FOR SALE, ETC.

Advertisements in this column one
cent a word. Initials count as words.
Cash with order. All correspondence
addressed "care HORTICUL-
TURE" should be sent to 11 Ham-
ilton Place, Boston.

HELP WANTED

WANTED—An experienced carnation
and chrysanthemum grower as foreman.
Address with references, G. B. Buxton,
Nashua, N. H.

SITUATIONS WANTED

SITUATION WANTED as foreman by
sober, ambitious young man; long all-round
experience on good wholesale and retail
places; good grower of carnations, 'mums,
roses and general stock; not afraid of
work; married; references; Conn., Mass.,
or adjoining states preferred; state wages
in first letter. X. Y. Z., care General De-
livery, Bridgeport, Conn.

SITUATION WANTED by married
Scotchman as Foreman in commercial
greenhouse; long experience with first-class
references. Reply to "Foreman," 6 South
Market Street, Boston, care of R. & J.
Farquhar & Co.

SITUATION WANTED by good grower
of roses, chrysanthemums and carnations;
also good design maker; can furnish good
reference. Address P. O. Box 325, Dover,
N. H.

SITUATION WANTED by gardener with
good record, private place preferred. Mar-
ried, two children. Address N., care HOR-
TICULTURE.

SITUATION WANTED in general green-
house work; single, age 35, five years' ex-
perience, commercial. Address W. W., care
Horticulture.

WANTED. Position as manager of plant
and fern growing establishment. Exper-
ienced. L, care HORTICULTURE.

FOR SALE

FOR SALE—One top delivery wagon and
one open delivery wagon, suitable for a
florist's use; almost new and in good order;
also a pair of good delivery horses; the
above can be bought at your own price.
Ed. Hignons, 146 West 28th st., New York.

WORCESTER COUNTY HORTICUL- TURAL SOCIETY.

The annual meeting of the Worces-
ter County Horticultural Society, Wor-
cester, Mass., was held November 6.
The result of the election was:
President, George Calvin Rice; vice-
presidents, Arthur J. Marble, Charles
Greenwood, Edward W. Breed; treas-
urer, Charles S. Bacon; secretary and
librarian, Adin A. Hixon, and numer-
ous trustees. Mr. Rice's election was
most unanimous, in spite of his re-
peated efforts to decline. He has long
been a vice-president, is a life-long
agriculturist and horticulturist, a
member of several kindred societies,
and a gentleman highly respected in
this vicinity.

Resolutions upon the death of
President O. B. Hadwen, who for so
many years served the society, were
passed. The reports given by the sec-
retary and treasurer showed that the
society was in a flourishing condition.

**BETWEEN YOU AND ME, What
do you think of the Buyers' Directory
and Ready Reference Guide of HORTI-
CULTURE? I always look it over be-
fore I do any buying**

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Horan E. C. 618	Thorburn J. M. & Co. 610
Houghton & Clark. 615	Totty Chas. H. 599
Jackson, H. A. 600	Traendly & Schenck. 618
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Langjahr, Alfred H. 618	Wilson, Andrew. 620
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Lord & Burnham Co. 628	Yokohama Nursery
Manda Jos. A. 613	Co. 598-613
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McCarthy N. F. & Co. 619	Young John 618
McConnell Alex. 615	Young, Thos. Jr. 615
McKellar Charles W. 610	Young & Nugent 615
McKissick, W. E. 616	Zangen O. V. 611
McManus Jas. 618	Zinn, J. A. 615

GREENHOUSES BUILDING OR CON- TEMPLATED.

Wausau, Wis.—Ch. Lund, one house.
Ottumwa, Ia.—O. P. M. Criley, one house.

Washington, D. C.—J. H. Davis, violet house

Philadelphia, Pa.—Charles Muller, house 20 x 80.

Woburn, Mass.—Charles Cummings, 300 ft. house.

Dorchester, Mass.—Samuel Neil, improvements.

Syracuse, N. Y.—Gustav Bartholme, range of houses.

Lake Odessa, Mich.—Lake Odessa Floral Co., addition 33x90.

Maspeth, N. Y.—S. Schmieg, three vegetable houses, 20 x 100.

Jamaica, N. Y.—Henry Butterwick, three carnation houses, 16 x 100.

Woodhaven, N. Y.—Henry Brockman, three vegetable houses, 16 x 100.

Chicago, Ill.—John Assa, two houses, 25x250; Carl Niemann, range of houses.

NEWS NOTES.

It is understood that the South Park Company, of New Castle, Ind., will build no more houses in the south part of the city, but as new houses are needed they will be built on land a mile or two distant from the city.

Peter Weiland, of the firm of Weiland & Olinger, New Castle, Ind., has purchased the Harvey farm of fifty-six acres, west of the city. As new houses are built they will be built on this location. The firm will in the spring erect ten additional houses on the newly acquired land.

LIST OF PATENTS.

Issued October 29, 1907.

- §69,289 Cultivator Shield. George E. Barrett, Superior, Wis., assignor of one-half to John Z. Miller, Superior, Wis.
- §69,299. Harrow Tooth. Lewis W. Fair, Waldron, Ark.
- §69,481 Cultivator. Wilson H. Daniel, Jasper, Ind.
- §69,493. Method for Grafting Trees. Peter Kaiser, Grafton, Mass.
- §69,499. Reversible Disk Plow. Charles M. Mallory and James M. Slaughter, Chattanooga, Tenn., assignors of two-thirds to Edward H. Sholer and Frank P. Llewellyn, Chattanooga, Tenn.
- §69,523. Flower Pot. Charles J. Schmidt, Chicago, Ill.
- §69,605. Cultivator. Ira A. Weaver, Springfield, Ill., assignor to Racine Sattley Co., Springfield, Ill.
- §69,660. Harrow Attachment. Edward Schultz, Chenoa, Ill.
- §69,672. Reversible Disk Plow. Samuel V. Weeks, Highland Park, Tenn., assignor to The Volunteer Disk Plow Co., Chattanooga, Tenn.
- §69,756. Combination Harrow, Pulverizer and Drag. Arthur D. Ulery, Scenery Hill, Pa.
- §69,771. Lawn Mower. Adelbert B. Case, Springfield, Mass.



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Iron frame and wood Greenhouses of every type for commercial and private use. If you contemplate building, allow me to submit sketch and estimate covering your requirements.

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Sash opening apparatus and all kinds of greenhouse structural material.



STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 3 1/4 " " "	5.25	60 8 " " "	3.00
HAND MADE			
1500 2 1/2 " " "	6.00	48 9 in. pots in crate	\$3.60
1000 3 " " "	5.00	48 10 " " "	4.80
800 3 1/4 " " "	5.80	24 11 " " "	3.60
500 4 " " "	4.50	24 12 " " "	4.80
320 5 " " "	4.51	12 14 " " "	4.80
144 6 " " "	3.16	6 16 " " "	4.80

Send pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N.Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower .. POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money

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28th and M Street WASHINGTON D. C.

§69,834. Harrow Attachment for Plows. John C. Forshe, Ninty-six, S. C.

The Chambers Window Glass Company, one of the best known glass manufacturing concerns in Pittsburg, has been petitioned into bankruptcy by the General Chemical Company, a New York corporation.

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288 sheets.....	6.50
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Yours very truly,
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A. HERRINGTON.

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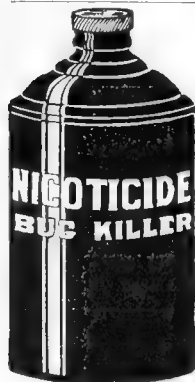
ONE OF THE MOST SERVICEABLE ARTICLES IN THE WORLD.

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Slug Shot Kills Sow Bugs. - - - Grape Dust Kills Mildew.



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For the Garden, Orchard and Greenhouse.
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Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application \$1.50 per gallon. Also in quarts, half gallons and in bulk.

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STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES

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LIQUID
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NICOTINE MFG. CO. ST. LOUIS MO.



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Best and safest manure for florists and greenhouse use, absolutely pure, no waste, no danger. Write for circulars and prices.

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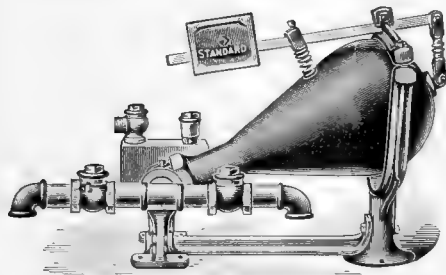
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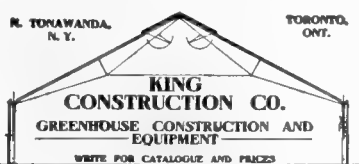
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GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway,

NEW YORK.



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We did our part, and even worked overtime, but with so many houses ahead and each being turned out of the factory in the order given, such delays are bound to happen in the rush season, even though we have the largest greenhouse factory in the world, and every modern facility to push work.

So take warning, for indications are, that next spring will be just like last. Get your order in the factory during the winter months. Write us—get our catalogs.

We make every part of a greenhouse but the glass. We sell any part.

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Here it is, end on—and that is the way to get the full beauty and value of that curved eave. No, we are wrong there, for the most convincing way is to go inside a gutter-eave house and then in a U-Bar House, with its clean sweep of glass from ridge to sill. The comparison is instructive. It's just the sunniest, best growing proposition in greenhouse construction, and we stand ready to show you we mean exactly what we say. Write, or let us send catalog. **Pierson U-Bar Company**, Designers and Builders U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23rd Street, New York.

HORTICULTURE

Vol VI.

NOVEMBER 16, 1907

No. 20



FIRST PRIZE VASE OF MAJOR BONKATTON

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*Devoted to the
FLORIST, PLANTSMAN,
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AZALEAS for Forcing Christmas to Easter

Our stock this season is handsomer than ever. Anybody in want of a quantity will do well to inspect our plants before placing their order. We have only popular American varieties: *Schryveriana*, *Nobe*, *Paul Weber*, *Prof. Wolters*, *Raphael*, *Simon Gardner*, *Vervaeana*, *Louis de Kerchove*, *Mme. Van der Cruyssen*, *Deutsche Perle*, *Dr. Moore*, *John Llewellyn*, *Mme. Cam. Van Langenhove*, *Mme. Jos. Vervaeke*, *Paul de Schryver*, *Memorie de L'Van Houtte*, *Sigismund Rucker* and others.

	Per doz.	Per 100
8-10 in. diam.	\$3 50	\$25.00
10-12 "	4.50	35.00
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15-16 in. diam.	\$9.00	\$75.00
16-18 "	12.00	90.00
18-20 "	25.00	200.00
20-24 "	36.00	300.00

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These plants are conceded to be the finest ever imported to this country. (Exceptional value).

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Handsome bushy specimens, 10-12 inches 15c.; 12-15 inches, 25c.; 15-18 inches, 35c.; 18-22 inches, 75c. each.

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10c. each, \$1.00 per doz., \$6.00 per 100

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PINK—Early: Glory of the Pacific, Rosier. Mid-Season: Adela, J. K. Shaw, Pink Ivory, William H. Duckham, Dr. Enguehard Morton F. Plant, The Harriott, Marie Liger, Lavender Queen.

YELLOW—Early: Monrovia. Mid-Season: Miss Georgiana Pitcher, Col. D. Appleton, Mrs. George Beech. Late: Major Bonnaffon, H. W. Rieman, Yellow Eaton, Old Gold, Golden Wedding.

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Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; prompt delivery.

Per 100 Per 1000
\$6.00 \$50.00

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DAHLIAS

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We also call special attention to our immense stock of Hardy Phlox, we have over a quarter million one year old field grown plants in stock, which we can supply at prices lower than you can grow them for.

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HORTICULTURE.

THE EXHIBITION SEASON

The Boston Show



TABLE DECORATED WITH FRUIT.

MAJOR BONNAFFON.

A Popular Institution.

The spacious halls of the Massachusetts Horticultural Society thronged with the flower lovers of the city and professional horticulturists from far and near for three days gave ample evidence of the place which the time-honored chrysanthemum show in Boston holds in the estimation of the people. Music, afternoon and evening, by a fine ladies' orchestra, gave the necessary touch of animation to the occasion, and the gorgeous masses of color and verdure which filled the brilliantly lighted halls compelled the admiration of professional and amateur alike.

Different from Its Predecessors.

For about a quarter of a century it has always been safe to say, "If you want to see trained specimen plants in perfection go to the Boston Show," but he who came to Boston on this occasion was doomed to disappointment, for not one specimen such as have excited the wonder of the beholder in past years was to be seen and the glory thereof has departed. These marvels of the growers' art were never adequately appreciated, for the toil and skill lavished upon them, not to mention the cost of transportation, have been a labor of love, invigorated with the zest of cultural rivalry, for which the premiums have been disproportionately small. Their absence was bemoaned by the visiting gardeners as was also the comparatively small representation of the enormous specimen cut blooms and plants grown to single stem and flower which have occupied

so prominent a place in recent shows and disparaging criticism was frequently heard, but the public, who take no interest in scales of points or deep cultural problems, had no complaint to make, and in their enthusiasm over other features unhesitatingly pronounced the exhibition "the best ever."

Some New Features.

There is a very evident tendency to broaden the scope of this exhibition and make it a comprehensive autumn show rather than a purely chrysanthemum affair. A striking innovation was the prizes offered for decorated tables of fruits with autumn foliage, berries, etc., which brought out some gorgeous arrangements of luscious native and foreign production which, although far too formal and architectural in conception, proved a most sensational attraction and will, no doubt, be improved upon in an artistic way next year. The first prize in this class was won by Edward MacMulkin. Tables arranged with chrysanthemum blooms, for decorative effect, were another new departure. Several entries were made but the one by Sidney Hoffman, which won first prize, was the only one displaying any special originality. It presented a beautiful study in arrangement of single white variety Garza. In the companion class admitting foliage or other material as accessories the two florists, Hoffman and MacMulkin competed, the former winning first with a combination of chrysanthemums, cork bark and autumn foliage. Another innovation was

the Farquhar silver cup and other prizes for special collections of vegetables, the winner of the cup being Edw. Jenkins, gardener to Giraud Foster, with a most remarkable display for this season of the year, including peas, Peep O'Day corn, string beans, asparagus, etc.

The Chrysanthemum Plants.

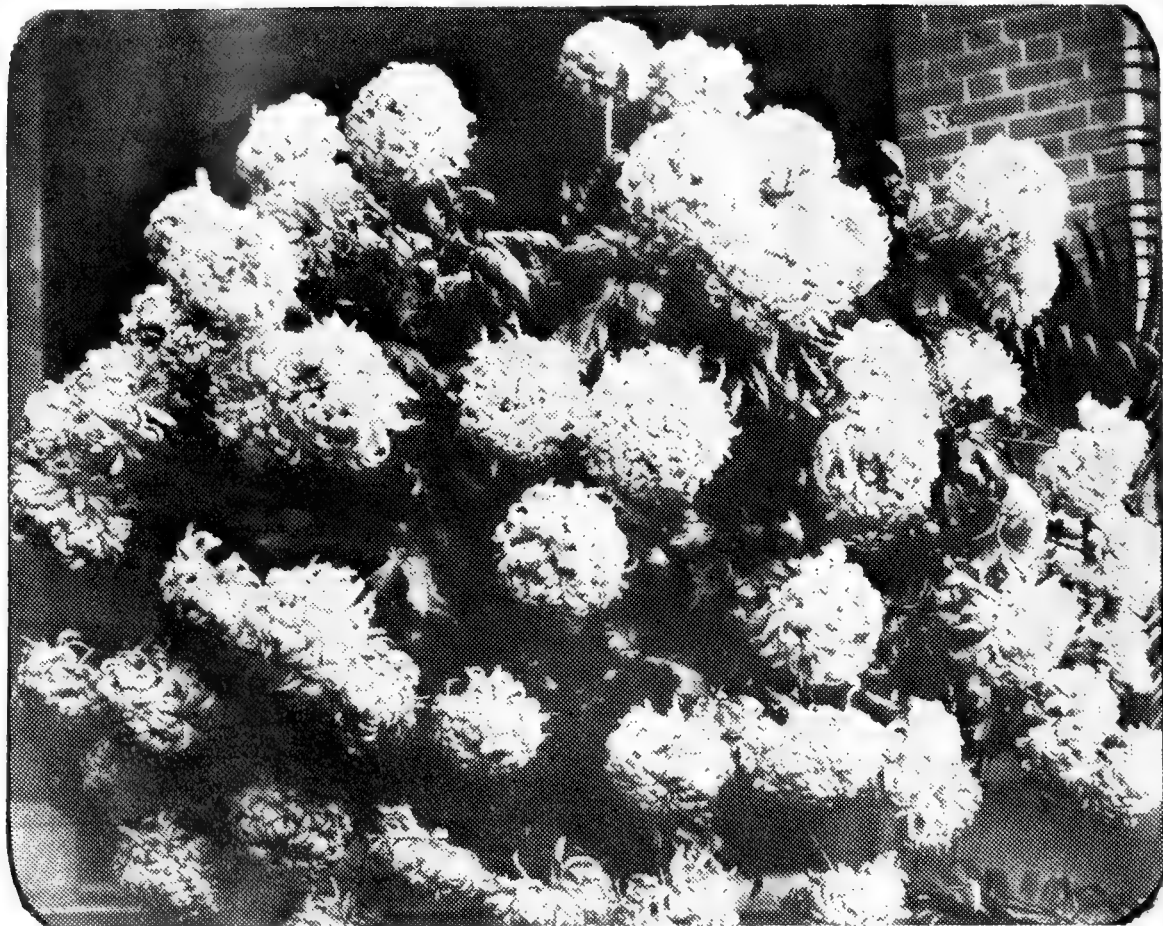
The plants were shown in the main hall. They did not constitute a very prominent feature and comprised nothing of striking value outside of the group of twenty-five low-grown commercial specimens from Wm. H. Elliott which were very fine, the groups of single-flowered varieties from Mrs. Frederick Ayer, gardener George Page, and one or two other exhibitors, and the plants grown to six stems with one bloom to each stem from Mrs. Lester Leland, gardener E. H. Wetterlow.

The Chrysanthemum Blooms.

As intimated above the groups of specimen blooms, while uniformly good, contained nothing sensational. There were, however, two enormous vases of one hundred blooms each of Major Bonnaffon and William Duckham, from Wm. W. Edgar, flowers of unexcelled perfection, towering far above the heads of the visitors and arranged with faultless taste.

A worthy companion to these was James Nicol's vase of Mrs. Jerome Jones which won the Gane Memorial prize.

First prize winners in the vase classes of separate colors were as fol-



WILLIAM DUCKHAM AT BOSTON

lows: pink, Dr. Enguehard by Wm. A. Riggs; red, John Shrimpton by Wm. Whitman, gardener Martin Sullivan; white, Merza by W. A. Riggs; yellow, Mrs. Wm. Duckham by W. A. Riggs; any other color, Wm. R. Church by A. F. Whitin. Among the finest specimen blooms in the various collections were Miss Miriam Hankey, pink, and Princess, white, by E. D. Jordan and Mrs. Swinburne, white, by Peter B. Robb. The prizes for six introductions of current year brought only one competitor, Mr. Whitman, who put up two sets among which nothing calls for special mention except Dakoma, orange reflexed, and Reginald Valis, crimson reflexed.

The Pompons and Singles.

These new-old classes were extensively shown, occupying a large section of the lecture hall and of the public interest. On pompons, R. Vincent & Sons, White Marsh, Md., were the premier exhibitors, and in addition to first prize received a first class certificate for their collection. Of singles there was a very extensive display from C. H. Totty. Mrs. Philip Dexter, gardener James Salter, was given honorable mention for seedling singles and anemone flowered; Mrs. J. M. Sears, gardener Wm. C. Ritchie, and G. H. Hale, received a similar award for collections. As the interest in the single and pompon varieties is on the increase a list of a few of the most distinct and attractive varieties may be acceptable here. No recommendation as to the hardiness of those mentioned is included, however, and for those

wishing to plant outside north of Baltimore special enquiry on this point from the large growers is advised. Pompons: James Boon and St. Almo white, Livan white flushed, Rose Trevenna bluish, Savannah and Sir Michael yellow, Dingula and Daybreak pink, Sheridan and Eynsford's Gem deep rose, Montclair salmon red, Jules Lagravere crimson, Mrs. Porter red, Elsie Walker tawney orange and Ruby Queen. Single flowered: Jessica deep rose fading to white at base of petals, Alice Crate carmine, Edith Owen and Kitty Bourne yellow, Ladysmith pink with lighter tips, Gertrude, Stella, Linton, Gladys and Miss T. Bird white, Edith Pagram pink semi-double, Hilda and Mary Richardson salmon, Ethel Beer bluish, Herbert Henderson light pink paler at tips, Annie Farrant crimson, Rev. W. E. Renfrey dark crimson, F. W. Smith deep pink.

The Decorative Plant Groups.

There were four gigantic groups each occupying 300 square feet of space against the walls of the large hall, from MacMulkin & Co., Wm. Whitman and S. Hoffman who won the prizes in order as named, and R. & J. Farquhar & Co., not in competition. These groups were composed of palms, ferns, bays, crotons, chrysanthemums, Lorraine begonias, etc., and served to screen the walls and make an appropriate setting for the lower exhibits. Joseph Breck & Sons contributed a nice group of conifers and box. Julius Roehrs Company sent a very choice collection of new plants and orchids, receiving honorable mention for Cy-

clanthus bipartitus and for Carludovica crenifolia. Lorraine begonias were well shown by A. M. Davenport and Sidney Hoffman and Turnford Hall by Robert Rust. F. R. Pierson Company were awarded a first class certificate of merit for two specimens of their striking novelty, Nephrolepis superbissima and W. A. Manda for Dracaena Mandaiana. The Gardeners' and Florists' Club prizes for table centre-piece of growing plants were awarded to Sidney Hoffman, F. Heeremans and Ed. MacMulkin, respectively.

The Orchids.

Ed. MacMulkin made a dazzling display of Cattleya labiata plants with Adiantum Farleyense. Lager & Hurrell put up their usual fine collection of orchids in variety and Julius Roehrs Co.'s group contained many interesting ones. Dr. C. G. Weld received a cultural certificate of merit for a record-breaking specimen of Odontoglossum grande with nine sturdy blooms on a single spike. The medals for orchid flowers brought out large displays from J. E. Rothwell who won the silver gilt medal with a collection of 125 named species and varieties, and Col. Charles Pfaff who won the silver medal with a fine collection.

The Carnations.

Carnation growers, with characteristic enterprise were out in force and the numerous exhibits of the divine flower practically filled the small hall. The prizes for six vases of fifty blooms each were won by Peter Fisher, S. J. Goddard, Backer & Co., and F. R. Pierson Co., the varieties represented

in the first prize set being Mrs. Tom Harvey, Mrs. C. W. Ward, White Perfection, Enchantress, Rose Pink Enchantress and Beacon. Leading standard varieties in the other collections were Victory, Winsor, Melody, Fair Maid, Rose Pink Enchantress, Firefly, Harry Fenn and White Enchantress. Among the novelties were Jahn's Crimson and Lloyd, a white seedling from H. A. Jahn; Bay State and seedlings No. 21 soft pink and No. 1000 bright pink, all three stunners from A. Roper; Britannia, Priscilla striped seedling and a white sport from Fair Maid—the latter a most beautiful flower—from S. J. Goddard; Afterglow and a pink seedling from Wm. Nicholson and Apple Blossom, a fine white, from Wa-No-Ka Greenhouses. The last named and Goddard's Priscilla were given honorable mention as were also seedlings No. 50-24 and 133 from M. A. Patten. Robert Rust, James Salter, Chas. S. Strout, M. A. Patten and D. J. Kerrigan were also represented by exhibits of high quality not entered for competition.

The Roses.

There were two notable novelties on exhibition in this department, White Killarney from Waban Rose Conservatories and Mrs. Jardine from Robert Scott & Son, Philadelphia. Both of these gems have been illustrated and described in previous numbers of HORTICULTURE. There seems no doubt that each will shortly take a position in the lead in commercial rose growing of this country. Mr. Scott was the proud recipient of a silver medal for Mrs. Jardine. The flowers maintained their freshness and marvellous symmetry throughout the show and their perfume attracted crowds of admirers. Two large vases of special American Beauties from Waban Rose Conservatories and Carl Jurgens were a centre of attraction. W. W. Elliott staged a vase of Kaiserins exceptionally fine and R. T. McGorum showed good Brides and Bridesmaids. Thomas Pegler and H. F. Calder were the only exhibitors of violets.

The Vegetables.

The vegetable display occupied the basement hall and had its full share of admirers. We have already referred to the Foster exhibit. E. L. Lewis got a silver medal for celery and won first prize with an invincible collection of remarkable extent arranged for effect, followed by Edw. Parker and Walter Warburton. Joseph Thorpe won a brone medal for celery. All the regular classes in the vegetable department were fully contested by a large number of exhibitors. Honorable mention was awarded to A. H. Wingett for onion Ailsa Craig and C. A. Stone for potatoes Breck's Pride and Delaware.

Zonal Geraniums.

A handsome display of zonal geranium trusses of more than usual merit was made by some unrecorded exhibitor. The name could not be obtained hence no award could be made by the committee. Among the most striking varieties were Mons. Poirier, deep pink; Mrs. Randall Barnes, white with pink centre; Miss Dorothy Borroughs, daybreak pink; Mons. Hamelin, salmon pink with light edge.

THE CHICAGO SHOW.

Chicago is always spectacular—or aims to be—in flower shows as in all things else. "Twenty carloads of flowers", we are informed, went into the great show which opened a week ago at the Coliseum. "Carloads" are a favorite standard of measurement in



AN INCIDENT OF THE CHICAGO SHOW.

"No such 'fend of the flowers' ever was known as will be waged tomorrow, when the beautiful Mrs. Marshall Field rose will vie with the Mrs. Potter Palmer rose for the supremacy of the floral world.

"Already \$50,000 has been offered and refused for the Mrs. Marshall Field rose.

"Bah!" says the owner of the Mrs. Potter Palmer rose; "it is a great price for a rose, but not nearly so much as my rose, the grandest in the world, is worth."—Chicago American.

Chicago, while Boston's ambition is appeased with crates or arms-full! Under these circumstances what could our friend, Alderman Peter Reinberg, do but to refuse the paltry \$50,000 offered for his Mrs. Marshall Field rose, and if Mr. Poehlmann said "Bah" it was simply the exuberance of the same expansive spirit. We do not blame Mr. Reinberg, for money is no object when one's children are concerned, and we hope he will make twice that amount on his pet rose and that HORTICULTURE will get a goodly share of the advertising when the time comes, although unwittingly left out in the cold in the matter of advertising the show.

This was the 16th annual exhibition of the Horticultural Society of Chicago and it was a worthy successor of a line of notable events characterized by enthusiasm, industry and novelty. The chrysanthemums—plants and flowers—were of the highest quality and the arrangement with sod and lawn effect was highly pleasing to the eye. The retail booths, which made such a feature of the last two exhibitions, were not so much in evidence this year, much to be regretted, as they were splendid attractions. There was a varied display of nursery stock in the department assigned to this material and the trade exhibits were enterprising as usual, among the best being the Foley and Moninger entries of sample greenhouses made from their building material. During the week covered by the show, special features such as roses, carnations, floral decorations, etc., were assigned to each day. In the present abundance of flowers among the commercial growers conditions were favor-

able to liberality, and the display of roses was particularly showy. Full report and comment on the exhibition as a whole should have reached us by this time, but our readers will find it no less interesting reading in next week's issue.

NASSAU COUNTY HORTICULTURAL SOCIETY.

Choice flowers, fruit and vegetables from many of the principal country places of the North Shore, filled Pembroke Hall, Glen Cove, N. Y., with their fragrance and beauty this week, when the third annual exhibition of the Nassau County Horticultural Society was held. John F. Johnson, gardener for Paul Dana, carried off the honors in the chrysanthemum classes. He took first in group of 50 square feet, 18 blooms, 6 varieties; 12 blooms, distinct varieties; Weber & Don special, 6 distinct varieties; Mrs. Paul Dana special 9 distinct varieties, and the F. L. Humbert special for largest bloom in the show. Other prize winners in the chrysanthemum classes were E. Bennett, gardener for R. L. Beeckman; H. F. Meyer, gardener for G. R. Sheldon; Valentine Cleres, gardener for F. S. Smithers; S. J. Trepess, gardener for J. Roger Maxwell and William Eccles, gardener for Mortimer Schiff.

Mr. Meyer, Mr. Cleres and Alexander Lothian divided honors in the rose classes. Mr. Meyer won Mrs. John Alvin Young's special for American Beauty roses, and Mrs. E. R. Ladew's cup for roses. The carnation prizes were well distributed. William Eccles led, winning among other prizes the Scott Bros.' cup for 50 carnations arranged for effect, the Boddington prize for orchids, the Pierson cup for 25 Winsor carnations, and the Schiff cup, valued at \$50, for 25 carnations, one variety. H. F. Meyer was one of the leading exhibitors and has eleven prizes to his credit, including the Ladew and Youngs special for roses. His exhibit of American Beauties was very fine. In the classes for commercial growers, C. F. Bertanzel made fine exhibits, taking firsts for 100 carnations, 25 white, 25 pink and 25 red, as well as silver medal for best collection.

Henry Matz, gardener for L. J. Busby, was awarded 1st for 25 chrysanthemums arranged for effect, showing a group that was exceedingly attractive. He also won the Mackenzie special for vase of cosmos: first for bridal bouquet, for foliage plant, for three ferns, for Asparagus Sprengeri and the Trepess special for single chrysanthemums. Frank Petrocia, gardener for John Alvin Young, took many prizes in violets and the Peter Henderson & Co. prizes for vegetables. James Holloway, gardener for the Pratt estate, led all exhibitors in the display of fruit, and outdoor chrysanthemums. Mr. Holloway was awarded the Titus & Bowne special for best collection of fruit, the Troy cup for collection of outdoor roses, second on Burnett Bros. special for 100 single violets and numerous firsts on apples, pears and grapes.

Mr. Johnston had as good success in vegetables as in chrysanthemums. He won the first for best twelve varieties, vegetables; first in Rickards Bros.

special for twelve varieties vegetables, and second in Henderson special for twelve varieties. He won other firsts for celery, onions and other vegetables. F. G. Mense won the first prize for group of palms, which occupied the center of the floor, the Stump & Walter prize for new introduction (salvia) and several other firsts in violets and carnations.

Among the plants used to decorate the hall were fine bay trees from George R. Sheldon's.

John Miller, gardener for L. C. Tiffany, was given certificate of merit for an exhibit of cyclamen not for competition. A certificate of merit was also awarded to Cosmos Lady Lenox.

James Ballantyne, Tarrytown, N. Y.; Anthony Schultheis, College Point, L. I., and Peter Duff, Orange, N. J., served as judges.

PENNSYLVANIA HORTICULTURAL SOCIETY.

The premier show of this society, which always occurs when the chrysanthemum is at its height—opened on the evening of the 12th inst with a magnificent display of the reigning autumn favorite, augmented by some of the choicest of the other seasonable flowers and foliage plants, and garnished with a fine showing of vegetables and products of the farm and nursery. In addition, the display of tools, implements, insecticides and sundries was important and educational. Altogether the show was one of which any society established on broad lines might well be proud, and will surely bear good fruit in the future.

Comparing the display with those of the past few years, it is gratifying to report a distinct improvement. The big specimen chrysanthemums in 14-inch pots were fine this year, and there was competition. The three entries completely filled the main hall excepting the sides and centre. All the exhibits were better than usual and reflected great credit on their sponsors, Messrs. Hurley, Smith and McCleary. We mention these in the order of their merit as it appeared to our judgment—the prize list not having been announced as we write.

A great feature of the main hall display was the keen competition for the Ravenhill prizes for a wall display, ten feet long by six feet deep, of foliage and flowering plants. Six competitors entered and all put up fine displays, which added greatly to the show, and the pleasure of the public. We do not know how the prizes went, but there was one exhibit that caught the eye instantly as an expression of taste in artistic arrangement and in everything that goes to make up an ideal group of this kind. Mr. Dodds has carried off many prizes in this class before, but he never had an inspiration like the one under review, which in our opinion is the finest that has ever been done in artistic arrangement of foliage and flowering plants combined with perfection of everything used in the grouping.

The cut blooms this year were above the average in quality, although the quantity was not. Kleinheinz and Robertson ran a close race for premier honors here. Batchelor, Henderson and McCleary were also strong com-

petitors. A new white seedling of Kleinheinz's "Lynnwood Hall" attracted much attention. It is a glorious flower, glistening snow-white, large and perfectly incurved, and with stems that would hold up the universe without a quiver. No wonder it won the Nathan Smith cup at New York over all competitors last week. "Glenview" in Batchelor's exhibit was another cynosure of all eyes. A fine show of singles was staged by C. H. Totty.

In the rotunda the big Gleichenias of Thos. Long were an attractive feature; as were also the Ficus pandurata of the Robert Craig Co. Evergreens in many varieties were shown by Thomas Meehan & Sons, who also put up in the lower hall over 70 varieties of cut "hardy chrysanthemums."

The lower hall was devoted mainly to vegetables, and a very creditable display materialized. The competition for the Dreer, Michell, and Burpee prizes was quite keen. Tools, hose, and other sundries were exhibited here by the seed houses, chief among same being that of Dreer and Michell. A feature of the latter concern was an alcove surrounded by electric strings intercepted by fountains of electric light. Plants were worked into the design, the whole serving as a background to the frontal display of bulbs and fancy pots and tubs. A bee exhibit was a rather unusual feature. This came from Wm. Stringham, a specialist in Italians.

A feature of the show was the splendid group of hardy chrysanthemums from Overbrook Gardens (E. A. Stroud). Julia Lagavere, clarent; Golden Pheasant, yellow, and Lulu, white, were fine in this, as were also two new seedlings raised by the foreman (Mr. Prince), Marion, pale pink, and Gertrude, darker. Another noticeable feature of the show was the fine display of Beatrice May in the Robertson exhibit. Robertson also had a very swell twelve in the foliage plant class which would have made our old friend Thatcher take notice. We have no room for much on the foliage plants but cannot close without a reference to the Phoenix Roebelini of Kleinheinz, said to be the finest specimen in America.

Among the exhibitors whom lack of space prevents us giving extended notice, but whose important contributions to the show were much appreciated and won many prizes, were:

George Bustard, gardener to Curwen Stoddard; Isaac Kalp, gardener to S. S. Friedburger; Joseph Crowther, gardener to Saml. B. Brown; A. J. Moir, gardener to John Pitcairn; Jno. Hedland, gardener to Mrs. W. L. Elkins; Jno. F. Sibson, gardener to Mrs. Thos. McKean; Wm. Bell Wright, Jno. Hobson, Jno. Fowle, Thos. Rowe, gardener to E. P. Earl; Saml. Hammond, gardener to Rudolph B. Ellis; Jno. T. Whitaker, gardener to R. Le Boutilier; Jno. Little, gardener to Jno. Lawler Welsh; S. Nowland, farmer for C. B. Newbold; Wm. Morton, gardener for E. R. Johnson; Wm. Henderson, gardener to Mrs. W. M. Potts; Thos. Gaynor, gardener to Mrs. Jno. B. Stetson; R. T. Morrow, gardener to G. I. Bodine; Edward Smith, gardener to E. A. Benson.

The F. R. Pierson Co. exhibited Nephrolepis superbissima and Winsor

and other carnations. E. G. Hill & Co. brought Rhea Read and Princess, their new roses. R. Scott & Son were on hand with a fine display of rose Mrs. Jardine.

DUTCHESS COUNTY HORTICULTURAL SOCIETY.

The 13th annual flower show of this Society was held at Poughkeepsie, N. Y., on November 6 and 7. The old-time exhibitors were well represented and the drill shed never looked more beautiful than on this occasion. Chrysanthemums, ornamental plants, roses, carnations and Poughkeepsie's great staple—violets—were shown in great profusion, also vegetables and fruit.

A feature of the show was the central group of plants from Archibald Rogers; also the similar group from the Saltford Flower Shop. The list of winners in the various classes included the names of many of the widely known millionaires whose country seats overlook the Hudson River, all the way from Poughkeepsie down.

In the violet contest, the prize for the best 500 blooms was won by F. G. Vanderbilt, and Alexander Thomas of Rhinebeck was second. For the best hundred double violets, the Saltford Flower Shop won first prize and F. G. Vanderbilt second prize.

One of the features Thursday was the contest for the best decorated dinner table. There were four entries and the prize was won by the Saltford Flower Shop. The center piece was of violets, with tiny bunches of violets tied with violet satin cord, at each dinner plate. The second prize was won by Winthrop Sargent of Fishkill. The center piece was of red roses, with rose buds at each plate. Samuel Gregg of New Hamburg decorated with chrysanthemums and James Whitney of Newburg, with chrysanthemums and adiantums.

There was a splendid exhibit of evergreens from the Sunnyside Nursery under the supervision of Supt. Leonard Dorthius.

The local newspapers and others complained of insufficient attendance. Why not try giving a little wider publicity to the event next year?

CONNECTICUT HORTICULTURAL SOCIETY.

The annual chrysanthemum display of this society was held in County Building, Hartford, on Friday, Nov. 8. The exhibits were numerous and of unusual excellence and the public attendance was so large as to tax the capacity of the hall. The principal exhibitors were J. F. Huss, supt. to J. J. Goodwin, J. A. Heber, gardener to Walter Goodwin, E. F. McDermott, gardener to H. C. Judd, Carl Peterson, supt. Whiting Greenhouses and Peter Zuzer, head gardener, City Parks. The display was not entirely confined to chrysanthemums, the extra exhibits of special interest being a group of splendidly grown Begonia Lorraine, staged by J. A. Weber, which was awarded a diploma, a fine specimen Odontoglossum grande exhibited by E. F. McDermott and a notable group of Cattleya labiata, by J. F. Huss—the two latter exhibits receiving certificates of merit. Mr. Huss also exhibited a vase of the new cosmos, "Lady Lenox," which was awarded a diploma.

The judging committee were C. H.

Sierman, Alex. Cumming, Jr., and John Gerard and their chrysanthemum awards were as follows:—Large flowering, cut blooms: J. F. Huss, 31 varieties, diploma; Peter Zuger, 25 varieties, diploma; J. A. Weber, 20 varieties, certificate of merit; E. F. McDermott, honorable mention. Peter Zuger, pompons, 35 varieties, diploma. J. A. Weber, two large standards, diploma and certificate of merit; J. F. Huss, ditto. J. F. Huss, bush plants, two diplomas. J. A. Weber, bush plant, diploma. J. F. Huss, collection pompons in 6-inch pots, diploma. Carl Peterson, collection, diploma. Gustav Minge, collection, honorable mention.

ALEX. CUMMING.

NEW JERSEY FLORICULTURAL SOCIETY.

The thirteenth annual flower show of the New Jersey Floricultural Society was held in the new hall of the Woman's Club in East Orange on the 7th and 8th insts. and called forth the usual best efforts of the well-known growers of its section. The effective lighting of the hall both by day and night added much in setting off its intrinsic merit and the wealth of greenhouse products brought to it by its talented representatives of the gardener's profession.

Three large pyramidal groups occupied the centre of the floor space, consisting of palms, ferns and chrysanthemums rendered particularly effective by the skillful introduction of many finely colored crotons and edged with selaginella, peperomias and other plants. A bank of orchids backed by palms and edged with *Adiantum Farleyense* occupied the proscenium and screened the musicians. Tables around the hall served to hold cut flowers, fruit and vegetable contributions. At one side was an elaborate mantel design by Geo. Smith consisting of autumn leaves, palms and ferns with a centre of orchids occupying the shelf and side groups of chrysanthemums upon the floor. The attendance at times was crowded and consisted largely of the lady patronesses of the show and their friends representing the various social sets of the Oranges.

Besides the competitive portion of the show were displays made by Lager & Hurrell of orchids without accessories other than themselves, elucidating the principles of John E. Lager so often expressed, that the orchid requires no ornament to set it off and during the evening he demonstrated to an admiring crowd how the centre of cattleya was strengthened in effect by the immediate proximity of the cypripediums upon its border and the oncidiums and laelia background, while the paler Eldorado acted as a foil to its more florid labiate and Percivaliana neighbors.

Joseph A. Manda staged a group of his own hybrid specialties with some well-flowered epidendrums and oncidiums. His group of Phoenix Roebelini with a centre *Ficus pandurata* was much admired. W. A. Manda contributed a collection of conifers and box in pots and his variegated privet, also a specimen *Nephrolepis* "South Orange." Henry Hornecker staged some cut flowers among which were carnation *Enchantress*.

The awards in the competitive



EXHIBITION OF N. J. FLORICULTURAL SOCIETY.

classes for chrysanthemum plants and flowers in specimens and groups, orchids, foliage plants, were numerous—among the winners of first prizes being Peter Duff, D. Kindsgrab, A. T. Caparn, Max Schneider and George Von Qualen, Peter Duff having the majority of them, and among the winners of second premiums being Wm. Reid, Albert F. Larsen, Geo. Von Qualen and P. J. Dervan, all gardeners on the various private estates in the vicinity. The special prizes were awarded as follows: Peter Henderson & Co.'s for twelve roses to Peter J. Dervan, and for display of vegetables to A. T. Caparn; F. R. Pierson's for Winsor carnations to Wm. Reid; J. M. Thorburn & Co.'s for display of vegetables grown from Thorburn's seeds to Peter Duff; George Smith's for exhibitor winning most first prizes to Peter Duff. The judges were J. N. May, C. H. Atkins and A. J. Manda.

MARIN COUNTY HORTICULTURAL SOCIETY.

The first annual exhibition of the Marin County Horticultural Society fulfilled the most sanguine expectations and was without a doubt the best floral exhibit ever held in the state. The only drawback was that the hall—the largest in town—was not large enough, and the exhibits were necessarily crowded. Society turned out in full force, and there was a splendid attendance from all around the bay. The exhibitors were not confined to Marin County; San Mateo County was largely represented, as well as San Francisco and Alameda Counties. Entries were made in all classes, except for carnations grown outside of California, and competition was very keen especially in chrysanthemums, and dahlias in Class A.

In the open class in chrysanthemums H. L. Goertzhain of Redwood City carried off the honors in white and yellow with Domoto Brothers of Fruitvale a close second; while in pink, any other color, and 12 distinct varieties the first all went to Geo. Draycott of San Rafael. Domoto Brothers got first for best and largest single bloom and A. W. Foster (Richard Lohrman,

gardener) and Mrs. J. F. Boyd second in the last four-mentioned numbers. In the Marin County section white, yellow, pink and any other color, the firsts went to A. W. Foster, Geo. Draycott, F. B. Anderson (W. Buehl, gardener) and Geo. Draycott respectively. Mrs. W. H. Crocker (H. McLean, gardener) won the society's silver cup for the best display. In the dahlia section G. A. Pope of Burlingame (Wm. Kittlewell, gardener) took firsts on Cactus, Show and Pompon and the silver cup for best and largeset collection. The first in Decorative went to F. B. Anderson while S. E. Slade of Menlo (Chas. Ehrlick, gardener) got first on single. The prize for the best seedling went to J. A. Donahue of Menlo (W. W. Carter gardener).

J. A. Carbone of Berkeley took all the firsts in the carnation section, T. W. Breen of Glenwood Nursery second on white, red and variegated, Domoto Bros. second on pink. T. P. Redmayne of Hotel Rafael gardens took first on collection of roses, outdoor grown roses, exhibit of cut flowers and six flowering plants. Geo. Draycott carried the firsts respectively on chrysanthemums in 6-in. pot, collection of potted chrysanthemums and on collection of ferns won the silver cup. Mrs. Gerstle of San Rafael (F. Miller, gardener) took first on decorative plant and specimen fern. Jno. A. Martin of Ross secured the gold cup for display or orchids, and the Schluter cup for best display of the show.

In class C the honors went to the Forrest Floral Co. of San Francisco for the most artistic floral design. Very fine non-competitive decorative exhibits were made by Jno. A. Martin of Ross and H. Schluter of Laurel Grove Nursery, San Rafael.

T. P. REDMAYNE, Sec

The chrysanthemum exhibit at the Lyman House, Smith College, Northampton, Mass., Nov. 8-15, was larger and better than any previous show.

The greenhouses of H. H. Rogers, Fairhaven, Mass., were opened to the public from Nov. 7 to 11. Chrysanthemums filled two houses and were a magnificent tribute to the skill of James Garthley, the gardener.

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cles in some quarters and it must be confessed that optimism in the face of the stagnated conditions at present existing is not an easy acquirement. Yet nothing is gained by persistent contemplation of the gloomy side and pessimism besides being profitless is also very uncomfortable. Far better for each individual to make of himself a "clearing house for the blues" keeping in mind for himself and impressing upon his associates the fact that our great country with its stupendous agricultural and commercial resources will soon resume its accustomed course. And hopeful confidence well distributed is the most effectual means of bringing this about.

The pompon's demands

Now that indisputable evidence is given of the growing public appreciation of the small-flowered chrysanthemums it will be well for the prize-schedule makers to give serious consideration to the pompon class from the standpoint of its proper place in decorative design. It can hardly be expected that these unpretentious flowers will appeal with any force to the average flower show visitor until exhibitors have learned to stage them more effectively than has been the case in a majority of instances. Crowded by handfuls into closely packed vases or bottles in an obscure location against the wall has usually been the fate of these sturdy little blossoms which in the hands of the artist and in association with Japs and singles may be placed so that they fairly sparkle. Mr. Duckham tells us that larger, nobler and more stately flowers is the key to continued popularity for the chrysanthemum. Mr. Duckham is only half way right. The stately flowers alone will not save the chrysanthemum's prestige unless the other classes are brought along in equal prominence as indispensable accessories. Monotony is what has been crippling the chrysanthemum as a drawing attraction.

An opening for improvement

Whatever may be said—and it cannot be overdrawn—as to the stately grandeur of the massive show chrysanthemums when grown to perfection and displayed with long stems and heavy foliage in large vases, yet nothing is more glaringly out of place than these big flowers on single-stem plants packed in at intervals among palms and crotons in the so-called "decorative" groups so frequently seen at the exhibitions. These groups, usually constructed in the form of a pyramid or a sloping bank against the wall, built up with the choicest products of the conservatory and displaying cultural attainments of a high order, become but travesties, from the standpoint of artistic propriety, when one sees the big globular chrysanthemum flowers peering out from between the leaves of ficuses and kentias, each securely fastened at the neck to a rattan stake. We always feel sorry for the chrysanthemums, sorry for the palms, sorry for the orchids which not infrequently are included—that they should be forced into such incongruous association. We predict that the time will soon come when this peculiar type of exhibit will be as obsolete as are now the ring streaked and spotted "bouquets" with which the florist of forty years ago delighted his customers.

The advertisement of a certain New York theatre starts with "Clearing House for the Blues" as a head line. The "blues" is a bad disease and an almost invariable symptom is that the victim resists any effort that his friends may be disposed to make for his relief. The malady is very prevalent in both wholesale and retail flower trade cir-

A QUESTION OF NOMENCLATURE.

Chapter II.

Editor HORTICULTURE:

Dear Sir:—I note in your issue of Nov. 2nd your reference to the nomenclature of *Hydrangea arborescens sterilis*. I cannot see anything in the explanation offered by Mr. Hill which validates the mistake. It appears that the above name was given in the regular approved form, by Torrey and Grey long before the appearance of the *Cyclopedia of American Horticulture*, and adopted or rather recognized by organizations which deal with the question of nomenclature. The fact that the secretary of the S. A. F. overlooked this earlier record is no argument that the original name given, properly published, and described, should be ignored. If this principle were followed, we might as well let rules of nomenclature "go by the board." I believe in correcting mistakes, and acting in consistent accord with the established rules. If this mistake had passed along without discovery for a number of years, it would be another question, but the correction is now being offered in abundant time to warrant its adoption without any serious confusion. The main point is that the *Cyclopedia of American Horticulture* is not the authority in this case, but merely recorded the name given many years ago by the leading botanists of this country.

Sincerely yours,

JOHN CRAIG.

We are glad these facts are coming out. Personally we have no prejudice in favor of either name. The point we wish to emphasise is that botanical authorities should keep better informed as to events in commercial horticulture. They cannot expect that men engaged in the hustle of business activity can keep posted as to obscure botanical records not to mention the perplexing changing and overturning of long-established botanical names which these same disagreeing authorities are ever engaged in. Having been secretary of the Society of American Florists and in charge of its registration department at the time Mr. Hill registered *Hydrangea arborescens grandiflora alba*, the present editor of HORTICULTURE is able to say that the widespread publication of the "submission" of a plant name for registration was made with a view to bring to light any prior name or other valid reason for discarding the name proposed and in accordance with the published rules of the Society, registration was not finally effected until after a sufficient time had elapsed for all protestants to be heard. The cooperation of its scientific friends would have been in the past and will now be very welcome to the Society of American Florists in its well-meant efforts to prevent confusion in plant nomenclature, and that this controversy over Mr. Hill's action may thus result is a "consummation devoutly to be wished."

NEW DAHLIAS AT CANNELL'S.

It would certainly have been a great treat for any member of the New England Dahlia Society to have been with me the other day when I spent a short time going over the immense collection of dahlias at Messrs. Henry Cannell & Sons, of Swanley. Under the energetic guidance of the head of the firm who although close on 70 years of age was as eager and as brisk as a young man of 25, I spent a most enjoyable time with this veteran florist whose recollections go back many years in all classes of florists' flowers and who has grown everything worth growing in that line.

One of the most interesting is Cannell's Pet, a capital little bedder, of the color of La France rose, with the advantage that the blooms stand up erect and do not droop as many of the others do. Large Decorative Singles of recent introduction are Hall Caine, which has very broad petals of pure golden yellow, shaded reddish chestnut; The Bondman, a fine substantial petal, very large flowers, white ground flushed crimson-magenta; Golden Glory, immense breadth of petal, color a lovely shade of pure greenish lemon yellow; White Cloud, a massive-petalled variety, pure white with the base shaded yellow.

Smaller in size but curious are the new anemone-centered dahlias. These are only 3 or 4 inches across but the disc is very pronounced. Swanley Anemone is deep rosy velvety crimson maroon with a golden center. Another of this type is Pink Gem and worthily named; the color is a lovely shade of bright rosy pink, disc golden buff.

Collerette dahlias are a French invention of a few years since and are beginning to be fairly well known; the number is still increasing and some interesting novelties are annually being raised. Maurice Rivoire, rich magenta and crimson with white collerette is one of the best. Prest. Viger, reddish carmine and Mme. Le Page Viger, reddish scarlet with yellow collerette is also a fine variety, although in neither instance are these to be considered novelties of the season.

The huge decorative peony-flowered varieties are immense in size and now comprise about a dozen well established sorts. Most of them have been exhibited at the dahlia shows this year. Baron de Grancy, Dr. K. W. Van Gorkum, Reine Wilhelmina, Gloire de Baarn, Germanica, Duc Henri, Reine Emma and several others being fully in flower at the time of writing these notes. Decorative garden dahlias, Mlle Helene Charvet, pure white; Souvenir de Gustave Douzon, rich red; Jeanne Charmet, Mme. Vauden Daele, M^{me}. a Lumiere and Source de Feu were all the subject of admiration on account of their value for massing in a color scheme where bold effects are required.

We noticed on our way across the dahlia ground a large collection of Decorative Singles with fine upstanding blooms that had been raised in Portugal and sent by the originator to Cannell's for trial. Nice bushy plants, vegetation not too rampant and large flat blossoms essentially single in form were mostly to be seen here. They will be tried and selections made before being finally announced for distribution.

HARRY H. THOMAS.

We extract the following from our English contemporary, "The Journal of Horticulture":

The New Editor of "The Gardener."

Mr. Walter P. Wright, who has edited "The Gardener" since its foundation nine years ago, has resigned his post. His successor is Mr. H. H. Thomas, son of Mr. Owen Thomas, V. M. H., late of The Gardens, Frogmore. Mr. H. H. Thomas has been sub-editor of "The Garden" for several years, and is the author of two books. One of these is upon the cultivation of the apple; and the other, just published, deals with suburban and town gardening. Mr. Thomas has had practical experience both in England and in France, and was for a short while foreman in the fruit department in the Royal Gardens, Frogmore. He also served for two years at Kew, and had general nursery experience in Messrs. Veitch's nurseries.

We also understand that Mr. Thomas, whose name is familiar to our readers as a contributor for some time past to HORTICULTURE, has been appointed to the secretaryship of the English National Dahlia Society. We wish him every success in his new undertakings.

PERSONAL.

Arthur Griffin, of Newport, R. I., has returned from an enjoyable visit to England.

Horticulture's popular representative in Philadelphia, George C. Watson, has been quite seriously ill and confined to his room during the past week.

Visitors in Boston this week: Winfried Rolker and H. F. Darrow, New York city; A. M. Rennie, Providence, R. I.; E. J. Harmon, Portland, Me.

On November 12, at the Cathedral Chapel, St. Louis, Robert F. Tesson and Miss Harriet Wilkinson were married. They will make their home at Sunny Point, West Forest Park.

Hjalmar Hartmann, of Copenhagen, the noted cauliflower seedsman, announced to his friends that his wedding would take place on November 15th at the Royal Shooting Club house in Copenhagen. His bride-elect is the daughter of Professor Godfred Christensen, the celebrated Scandinavian artist.

A LEADING HOLLAND NURSERY.

Van Meerbeek & Co., the nurserymen of Hillegom, Holland, whose advertisement appears in this issue, carry on an extensive bulb growing establishment where some of the finest Dutch bulbs are produced which find their way to the American market. This firm has been in existence for over half a century and its list of hardy border plants comprises an immense variety of the more elegant things which are now coming into wide demand.

NEWS OF THE CLUBS AND SOCIETIES.

MARYLAND HORTICULTURAL SOCIETY.

More than ordinary interest is being manifested in the tenth annual meeting of the Maryland Horticultural Society, which will be held in the Fifth Regiment Armory, in Baltimore, December 3rd and 4th. This organization is a very active one, embracing the fruit growers, florists and truckers and at the coming meeting every phase of horticulture will be discussed by prominent men from different parts of the country.

The large exhibits of fruit, flowers and vegetables which is planned to cover 50,000 sq. ft., or the whole Fifth Regiment Armory, will be a special feature, and it is hoped to be the largest show of its kind ever held in Maryland. A large sum of money has been offered as premiums for the special exhibits.

A floor plan of the exhibits will be sent to any prospective exhibitor. Space will be subject to reservation for exhibits of all kinds of spraying machinery, fruit packages, greenhouse appliances and other horticultural apparatus.

Following is the program of the meeting: 2:00 P. M., Invocation, Rev. William Paret, Bishop of Maryland. Organization and announcements. Address of welcome, His Honor, J. Barry Mahool, Mayor of Baltimore. Response, Hon. Henry Holtzapfel, Hagerstown, Md. Report of secretary and treasurer, Prof. T. B. Symons, College Park. Reports of standing committees—orchards, vineyards, stone fruits, small fruits, vegetables, flowers, ornamentals, entomology, ornithology, botany, plant pathology, nomenclature, new fruits, packing, storing and marketing fruits, transportation. President's annual address, Hon. Orlando Harrison, Berlin, Md. Appointment of committees on resolutions, obituary and auditing, treasurer's account.

Tuesday, December 3rd, 7:45 to 9:30 P. M.

Question box. Announcements and miscellaneous business. Report of State Forester, Prof. F. W. Besley, Baltimore, Md. Water gardening, Peter Bisset, President Washington Florists' Club, Washington, D. C. Sketches of the peach industry in the United States. Prof. John Craig, Cornell University, Ithaca, New York.

Wednesday, December 4th, 9:00 A. M. to 12:00 M.

Question box. Announcements and miscellaneous business. Report of the State Pathologist, Prof. J. B. S. Norton, College Park. Forty years in the apple orchard, Mr. U. T. Cox, Proctorville, Ohio. Maryland Agricultural College, Pres. R. W. Silvester, College Park. Marketing fruits and vegetables, Mr. Walter Snyder, ex-Pres. National Shippers' Ass'n, Baltimore, Maryland.

Wednesday, December 4th, 2:00 P. M. to 5:00 P. M.

Question box. Announcements and miscellaneous business. Report of State Horticulturist, Prof. C. P. Close,

College Park. Growing small fruits for market, Mr. C. F. Hale, Shelby, Michigan. Maryland Experiment Station. Director H. J. Patterson, College Park. Election of officers. Reports of select committees. General business.

Wednesday Evening, December 4th, 7:45 to 9:30 P. M.

Commercial floriculture, C. S. Ward, New York, N. Y. Report of State Entomologist, Prof. T. B. Symons, College Park. Miscellaneous business. Adjournment. Banquet.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

Philadelphia, Nov. 4th. No. 1, cream white, Jap. Incurred; exhibited by Gordon Smirl, Rosemont, Pa.; scored 85 points commercial and 85 points exhibition scale.

Philadelphia, Nov. 4th. No. 2, magenta, light reverse, Jap. Incurred; exhibited by Gordon Smirl; scored 79 points commercial and 81 points exhibition scale.

Cincinnati, Nov. 2nd. (No name), redish bronze, Japanese; exhibited by Nathan Smith & Son, Adrian, Mich.; scored 79 points exhibition scale.

Cincinnati, Nov. 2nd. Mary Donellan, yellow; exhibited by Nathan Smith & Son; scored 83 points commercial and 87 points exhibition scale.

New York, Nov. 6th. N. Moir, Jap. Incurred; exhibited by C. H. Totty, Madison, N. J.; scored 92 points commercial and 94 points exhibition scale.

New York, Nov. 6th. Lynnwood Hall, Jap. Incurred; exhibited by Wm. Kleinheinz, Ogontz, Pa.; scored 86 points commercial scale.

Chicago, Nov. 9th. Sadie May Stremmer, yellow (sport of Queen); exhibited by Metcalf's Greenhouses, Hopkinsville, Ky.; scored 64 points commercial scale.

The variety No. 4, exhibited by Frank E. Wetney before the New York committee, has been named Grace Wetney. **DAVID FRASER, Sec'y.**

ELBERON HORTICULTURAL SOCIETY.

The Elberon Horticultural Society held its second annual meeting on November 4th, President W. D. Robertson in the chair. The various officers read their reports which showed the society to be in a flourishing condition.

In the competition for points at the meetings held during the last year, Peter Murray was awarded the gold medal with an average of 89; A. Bauer, silver medal, with an average of 88; J. Kennedy, third, with an average of 86. In the class for those without greenhouses A. Griel was first with an average of 81.

Rickards' Bros., of New York, were present at this meeting and offered a silver cup to be competed for at the meeting during the next year. A. Griel donated a silver cup also for a similar purpose. A. Rickards installed the newly elected officers into their respective positions.

GEORGE MASSON, Sec'y.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The meeting November 5 was a record breaker in point of attendance and the high average quality of the blooms exhibited. It was chrysanthemum night. Of the blooms sent by The E. G. Hill Co., Mme. Delizy was well spoken of in a commercial way also Mary Mann and, for exhibition, Mme. Mouncey. The Pittsburgh Rose & Carnation Co. showed a good lot including Mme. A. Detroyat, Morton F. Plant, Golden Wedding, Appleton, Beatrice May, Wm. Duckham, Chadwick, Balfour and others. H. C. Frick, David Fraser, gardener, showed Miss Clay Frick and Mile. Ogizl. Phipps Conservatories, J. Jones, foreman, as usual staged a very fine collection. Their leaders were Mary Ann Pockett, May Seddon, Thos Carrington, Golden Age. The difference in color in Wm. Duckham blooms from early and late buds was very noticeable. Western Penitentiary, Walter James gardener, showed a good vase.

Godwin Bros., Bridgeville, Pa., H. S. Price, gardener for Mr. Laughlins, Thos. Jenkinson, gardener for A. R. Peacock, with Miriam Hankey the leader, Mr. Westhoff, with White Bonaffon and in particular a vase of Robt. Craig carnations that would have been prize winners in almost any company, Mrs. R. H. Rogers, G. & J. W. Ludwig with Perle, Mme. de Watteville, Ivory and Bride roses, were all prominent exhibitors. There was also shown by H. L. Blind & Bros. a galvanized iron hotbed sash, provided with little gutters for the delivery of the drip outside the hotbed.

The chrysanthemums displayed showed conclusively that Pittsburgh florists and gardeners can produce the highest grade of blooms despite their disadvantage of soot, smoke and fog.

Subject of next meeting is to be announced later.

H. P. JOSLIN, Sec'y.

NEW YORK FLORISTS' CLUB.

The regular meeting of the New York Florists' Club, on the evening of November 11, was attended by over one hundred, of whom a goodly number were ladies, a special invitation having been extended to them and preparations for their entertainment duly made. The main event of the evening was a talk, illustrated by photographic views, by Henry Saxton Adams of Wellesley, Mass., on the subject of school gardens. Mr. Adams talked very entertainingly and his address was received with much pleasure and approbation. He spoke of the children's garden movement from the point of view of the educator, the florist, the public, and touched upon all phases of the benefits to result from the training of the young in garden work. Favorable comment was made by Patrick O'Mara, who instanced the great boon that Peter Henderson's book on Gardening for Profit had been to the country—especially to the South after the war, and made a strong plea in behalf of popular education in the tilling of the soil, an employment which devel-

DAHLIAS WHOLE FIELD CLUMPS *Special Surplus Offer*

BELOW is a list of Dahlias of which we have a surplus over and above our regular requirements and offer you large whole field clumps or roots of the varieties named, except where noted, at \$4 per 100, \$35 per 1000. Mixed varieties \$3 per 100, \$25 per 1000 until sold. They are all true to name and in fine condition for shipping and consist of the best standard sorts for either private or commercial use. Terms net F.O.B. Sparkill, packing extra at cost.

CACTUS DAHLIAS		DECORATIVE DAHLIAS		SHOW DAHLIAS		POMPON DAHLIAS		COLARETTE DAHLIAS	
200	Bravo	60	J. W. Wilkinson	150	Antietam	200	White Swan		
100	Columbia	75	Lady Pierson	150	C. W. Bruton	100	A. D. Livoni	100	Alita
75	Cornuopia	100	Miss Crata Park	75	Countess of Pembroke	150	Crimson	150	Elfin
150	Cycle	100	Mrs. H. J. Jones	400	Catharine Duer	300	Floral Park Jewel	350	Prince Charming
100	Capstan	150	Mrs. J. P. Clark	400	Ernest Glaspe	250	Glowing Coal	100	Vivid
50	Delicata	100	Hatchless	100	Iridescent	150	Magnificent		
75	Earl of Pembroke	15	Mr. J. Dickson	200	Mrs. Basham	150	Penheddy Beauty	SINGLE DAHLIAS	
50	Erikoenig	200	Primrose Dame	1500	Nymphaea	150	President	\$7 50 per 100	
100	Fuerst Bismarck	150	Singinde	500	Nedling	400	Penelope	2000	
200	Greens White	200	Standard Bearer	500	Oban	1000	Prince Bismark	100	Twentieth Century
50	H. F. Michell	100	Walthari	300	Orange King	500	Queen Victoria	50	John Downey
400	Innovation	50	Wm Haage	150	Perle d'Or	2500	Kid Hussar	50	Lady Whitehead
									\$3 per 100. \$25 per 1000

For other varieties see our Spring price list — Description and colors furnished upon request.

PALISADES NURSERIES, Perennials Our Specialty SPARKILL, N. Y.

ops the bone and sinew and makes for the best citizenship.

E. G. Hill of Richmond, Ind., who was present, spoke in a similar strain, and also took occasion to advocate the coming national flower show, urging that the New York fraternity take hold earnestly and help to make it a great national success in its scope, character and influence. He confidently expected a good representation of foreign exhibitors. A hearty vote of thanks was tendered Mr. Adams.

There were some interesting exhibits on which the committee made report as follows:

Rose Rhea Reid, by E. G. Hill Co., 9 points and a preliminary certificate; Rose Princess, 85 points and a preliminary certificate. Charles Weber, Lynbrook, showed carnations Imperial, Pink Imperial and Aristocrat, which had previously been shown before the club.

Nominations of officers for 1908 were made as follows:

For president—C. H. Totty, C. B. Weathered, Wm. Duckham. Vice-president—H. Weston, W. Marshall, A. Jaennecke. Treasurer—W. F. Sheridan, J. K. Allen, A. L. Miller. Secretary—S. S. Butterfield, John Young, J. Austin Shaw, Trustees—E. V. Hallock, W. A. Du Rie, Peter Wagner, Chas. Lenker, A. J. Guttman, A. M. Henshaw, A. Rickards, Robt. Simpson.

Sumptuous entertainment was provided for ladies and everybody else by the official caterer, John B. Nugent, and the rest of the committee on good cheer, physical and mental. Rickards Bros., the whirlwind songsters, were in their best form; the youthful Burnett Bros., in violin and piano duets, made a decided hit; Mrs. Bevins, Miss Ruff and Mr. Woodell in vocal selections were very fine, and altogether the affair was most enjoyable in every detail.

WASHINGTON FLORISTS' CLUB.

The regular monthly meeting of the W. F. C. was held in Gude's Hall, November 5th, with President Bisset in the chair. The coming chrysanthemum show was the chief subject of interest. Chairman Cooke of the committee reported to the effect that all arrangements are about perfected and an unusually fine exhibit is expected. It was stated by Secretary McCauley that Mrs. Roosevelt has promised to attend the exhibition. Henry A. Dreer has signified his intention of sending

on a specially fine exhibit of plants which will afterward be sold and proceeds donated to the associated charities. The club has gotten up a striking "ad" in the form of a handsome card showing a showy chrysanthemum. These will be very freely distributed. It was moved and seconded that Baltimore be invited to send judges for the show, who will be entertained by the local awards committee. President Bisset was much complimented on several of his new seedling roses which he exhibited for the first time. All the tickets still remaining in the hands of the W. F. C. Bowling Team were quickly disposed of.

TARRYTOWN HORTICULTURAL SOCIETY.

The cup for table decoration at the second day of the fall exhibition was won by Edw. Jenkins with a centre piece of *Cattleya labiata*, *Oncidium varicosum*, *Bougainvillea glabra*, lily of the valley and *Adiantum Farleyense*, a committee of ladies serving as judges. W. H. Waite, in competition, put up a dainty arrangement of lily of the valley and sweet peas. Red chrysanthemums with autumn foliage and berries, red carnations and lily of the valley, red and yellow chrysanthemums and a Japanese arrangement of rustic summer house, etc., in miniature, were the other competing arrangements. Much popular interest was evinced.

CLUB AND SOCIETY NOTES.

The landscape class of the Gardeners' and Florists' Club of Boston will soon resume study. Arrangements are

nearly completed and announcement of date of opening lesson will be made in a few days.

The public meeting of the State Board of Agriculture will be held in Horticulture Hall, Boston, December 3, 4 and 5. On Tuesday at 10 A. M., Mayor Fitzgerald for the city and Gen. Stephen M. Weld for the Massachusetts Horticultural Society, will extend welcome. Gov. Curtis Guild, Jr., will respond. Among the speakers will be Prof. H. F. Hall, of Durham, N. H.; W. W. Tracy, of the Department of Agriculture, Washington, D. C., and Dr. H. T. Fernald, State Nursery Inspector. A business meeting of the Board will be held following adjournment on Tuesday P. M.

USEFUL BOOKS.

We can supply the following books, postpaid, at the prices listed:—

The American Carnation. C. W. Ward. Price, \$3.50.

Chrysanthemum Manual. Smith. Price, 40 cts.

The Dahlia. By L. K. Peacock. Price, 30 cts.

Dwarf Fruit Trees. Waugh. Price, 50 cts.

Manual of the Trees of North America. C. S. Sargent. Price, \$6.00.

The First County Park System. F. W. Kelsey. Price, \$1.25.

The Horticulturist's Rule-Book. Bailey. Price, 75 cts.

HORTICULTURE PUB. CO., 11 Hamilton Place, BOSTON

Michell's New Crop Flower Seeds for Early Sowing

VERBENA, Michell's Mammoth Fancy Strain

Our Mammoth Fancy Strain, combining large size, purity of color, and free-flowering qualities, is without a doubt the finest ever offered to the trade.

	Trade pkt.	Ounce
Blue	30	\$1.50
Pink	30	1.50
Scarlet	30	1.50
Striped	30	1.50
White	30	1.50
Mixed	30	1.50

	Trade pkt.	Ounce
VINCA, Alba	20	\$.60
" Alba Pura	20	.60
" Rosea	20	.60
" Mixed	15	.50

SALVIA, Ball of Fire	50	3.50
" Bonfire	40	2.50
" Splendens	25	1.25

SMILAX (per pound, \$1.00) 10 30

SEND FOR OUR WHOLESALE BULB CATALOGUE

HENRY F. MICHELL CO., 1020 Market St, Philadelphia, Pa.

ESTABLISHED 1802

Thorburn's Bulbs

ROMAN HYACINTHS at reduced price
to close out.

PER 1000 SEEDS
Asparagus plumosus nanus seeds \$2.25
Asparagus plumosus robustus seeds 2.50

BERMUDA EASTER LILIES

Bulbs of all kinds, native and foreign.

Send for our Trade Bulb List

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK
Everything of the Highest Grade

We have a surplus of

Narcissus VON SION 1st
SIZE

Write for Prices

BRIDGEMAN'S SEED WAREHOUSE
RICKARDS BROS., Props.
37 East 19th St., NEW YORK



BULBS

for immediate plant-
ing or forcing.

Let us quote on what-
ever you need.

H. E. FISKE SEED CO.
12 & 13 Faneuil Hall Square,
BOSTON, MASS.

GLADIOLI

Cut spikes in any quantity from
Selected White and Light Shades;
Selected Mixed Colors and Named
Varieties of Exceptional Beauty.

Write for Prices

ARTHUR COWEE

Gladiolus Specialist

Meadowvale Farm, BERLIN, N. Y.

GLADIOLI

Spotted Ca la, Madeira Vine,
Cinnamon Vine, Oxalis Four Varieties,
Hyacinthus Candicans,
Lilies in Variety, German Iris,
Var. Day Lily,
Delphinium Formosum

Send for price list of Bulbs and Hardy Plants

E. S. MILLER, - Wading River, N. Y.

BETWEEN YOU AND ME, What
do you think of the Buyers' Directory
and Ready Reference Guide of **HORTI-
CULTURE?** I always look it over be-
fore I do any buying

LILIAM WARDARAI.



This lily which R. M. Ward & Co.
expect to send out next season in
quantity is an improvement on longi-
florum giganteum, growing considera-

bly taller, with strong erect stems and
more flowers. The proposed name is
compounded of the names of Mr. Ward,
the introducer, and Mr. Arai, the
grower.

Seed Trade

Rumors which have been in circula-
tion for some time, to the effect that
the California seed growers would not
book orders for onion seed of the 1908
crop, prove to be correct, as to the
two principal growers, C. C. Morse Co.
and the Braslan Seed Growers' Com-
pany. Just what the other growers are
doing or are going to do has not been
learned, but they are likely to follow
the example of the two leading grow-
ers. A statement that C. C. Morse
Co. started in to book orders for the
1908 crop then suddenly shut off, is
doubtless true; their reason for so do-
ing has not been made clear.

The reason assigned for refusal to
make contracts for the 1908 crop, is
that a syndicate headed by Chinamen
has cornered the supply of onions and
is holding them at practically pro-
hibitive prices. This statement proves
to be mainly true, and unless there is
a loosening up by the syndicate vol-
untary or otherwise, the growers can-
not afford to pay the prices. Not only

would the price of the onions tend to
increase the price of seed, but in case
of even a partial failure of the crops,
the loss to the growers would be very
heavy. To insure themselves against
this, they would have to greatly in-
crease the price of seed to the seeds-
man, and rather than pay it the latter
would greatly prefer to take chances
on the open market next fall. There
has been much criticism of the grow-
ers for their attitude in this matter,

(Continued on page 644.)

ST. DAVIDS Late-Dug Harrisii

Guaranteed pure bulbs. No longi-
florum adulteration

SIZE 5 to 7, 400 in a Case. \$5.00 Case

Wm. Elliott & Sons
201 Fulton Street
NEW YORK

RALPH M. WARD & COMPANY

12 WEST BROADWAY, NEW YORK

OFFER DIRECT IMPORTATIONS

JAPAN LILIUM LONGIFLORUM.....	7-9 inch,	300 per case
JAPAN LILIUM MULTIFLORUM.....	6-8 inch,	400 "
" " ".....	7-9 "	300 "
" " ".....	10-11 "	150 "
" " ".....	11-12 "	80 and 120 per case
" " ".....	11-13 "	100 "
" " ".....	12-13 "	70 "
JAPAN LILIUM GIGANTEUM.....	7-9 inch,	300 and 280 per case
" " ".....	9-10 inch,	200 per case
" " ".....	10-11 "	140 "
JAPAN LILIUM AURATUM.....	10-11 "	to arrive soon
SPECIOSUM MAGNIFICUM.....	10-11 "	"
" " ".....	11-12 "	"

**BAMBOO CANES, 5-6 feet long, fine, strong and well packed
AT REASONABLE PRICES**

We also have a limited surplus of French Roman Hyacinths, 12-15 cm; Paper White Grandiflora 12-13 cm and 13-up cm; Lilium Harrisii 5-7 and 7-9 in.; Chinese Sacred Lilies; Cycas Stems; Raffia, etc.

POSITIVELY NO ORDERS FILLED FOR LESS THAN CASE LOTS

THE QUALITY OF OUR JAPAN LILIES IS UNSURPASSED

VINCA SEED

Mr. Florist, do you know the right time to sow Vinca seed is right now.

	Trade pkt.	Per oz.
Vinca Alba, white, with rose centre	\$0 15	\$0 50
" " Pura, pure white .....	.15	.50
" Rosea, pink.....	.15	.50
" Mixed .....	.10	.40

BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation. **BODDINGTON'S CHRISTMAS WHITE.** A grand companion to Christmas Pink.

10c per oz.; ¼ lb. 30c; ½ lb. 50c; 1 lb. 75c.

Our Fall Bulb Catalogue now ready. If you have not already secured one, send a postcard today. It contains a full line of bulbs and flower seeds.

ARTHUR T. BODDINGTON, 342 West 14th St., N.Y. City

My GIANT CYCLAMEN

Are ahead in growth and flowers. Bloodred, Carmine, Pink Pure White White with Carmine Eye.

E ch co or sepa ate 1r. pkt., \$.00; 1000 seeds, \$6 00. An even mixture of the above 5 colors 1r. pkt., 75c; 1000 seeds, \$5 00. For larger quantities, special quotations.

O. V. ZANG, N. Seedsmen, HOBOKEN, N. J

C. C. MORSE & CO.

Address all communications to our permanent address 48 to 56 Jackson St., San Francisco, Cal.

The Largest Seed Growers in the United States

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

BAMBOO CANES

TOUGH AND STRONG

6 ft. long — \$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO., - 50 Barclay St., New York

Best Quality Fall Bulbs

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent upon request. Catalogues now ready.

VICK'S SUPERB PANSY SEED

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 75c. 1-4 oz. \$1.50 Ounce \$5.00

JAMES VICK'S SONS, Rochester, N. Y.

BRASLAN SEED GROWERS CO.

GROWERS FOR THE

WHOLESALE TRADE ONLY

SAN JOSE, - - CALIFORNIA

C AULIFLOWERS E D C A B B A G E E D

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

CYCLAMEN

Farquhar's Giant Strain

Unsurpassed for size of flowers.

**Giant Crimson Giant Pink
Giant White Finest Mixed
Giant Excelsior, White with
Claret Base**

100 seeds, \$1.25; 1000 seeds, \$10.00.

R. & J. FARQUHAR & CO.

6 & 7 So. Market St., Boston, Mass.

BULBS

SPIREA JAPONICA COMPACTA MULTIFLORA, FL RIBUNDA, GLADSTONE

Get our special prices on surplus Bulb stock.

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS.

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY CO.

32 & 33 So. Market St., BOSTON

SEED TRADE.

(Continued from page 6.)

but with a full knowledge of the facts fair minded people will admit the justification of their position.

The recent fire at the Government Seed Shop seems to have made a clean sweep as usual when a fire occurs in a seed warehouse, as all not destroyed by fire is just as effectually put out of commission by water. The department of agriculture had in store most of its seeds for this season distribution, and all are wiped out, some items being an irreparable loss as they cannot be replaced this year. It is doubtful if this fact is appreciated at the department, as they apparently expect to replace their entire stock at about the prices paid last spring. They are doomed to disappointment, however, as there has been a general advance on practically the entire line of seeds, in many instances over 100 per cent. Among the items lost was 2,500 bushels of sugar corn, which every seedman knows cannot be replaced excepting at prices so high as would cause a general attack of heart failure among responsible officials of the department. The fact that this 2,500 bushels of corn was worth from \$12,000 to \$15,000 is a secret which has not yet been revealed to them, but they will soon be made wise. To meet their extra purchase of seeds and other supplies destroyed by the fire, a supplementary appropriation will have to be made by Congress, but this is not causing the department officials any anxiety. They feel certain that the appropriation will be made, and are in a state of cheerful optimism.

But suppose Congress should not make the appropriation? It would not be the first time by any means that appropriations have been refused after the Government has got the goods. In more than one emergency supplies have been furnished at the request of responsible heads of departments, with the expectation that Congress would appropriate funds to pay for them, which it has failed to do, and there are several unpaid claims before the Court of Claims which have been pending for years. Of course, "The Government never repudiated any just obligation," but when a just obligation runs through the lifetime of two generations and is still unpaid, it comes pretty close to being repudiation. It is hoped that in the present instance Congress will promptly make the appropriation, but the reverse is by no means an impossibility.

It is reported that a number of retail catalogues will not offer sugar corn in quantities greater than pecks, which shows good judgment, as the dealer can thus better protect his stocks for the benefit of his regular customers. Some retail seedmen appear to have been caught not only without any sugar corn seed on hand but also without contracts for any. It does not speak well for their business acumen, to be caught in such a fix in the matter of a leading item that they must have every year. It has been demonstrated repeatedly that an item may be selling below cost of production one year, and at famine prices the next, and particularly items like corn, peas or beans, which are seldom carried in sufficient quantities to

tide over a very short crop year without a very long advance in prices.

Recent information from Martial Bremond, Ollioules, France, is that the bulb district has been visited by excessive rains from the middle of October to November 1st continually, and the planting as a consequence, has been considerably delayed; and it is absolutely impossible to get any idea of the prospects and prices of 1908 crop.

George Young, for several years connected with the Holmes Seed Company, has left that firm and there is a good opening there for an intelligent, capable salesman who can "do business" with both merchants and market gardeners.

The Japanese government has bought the steamships Tartar and Athenian from the Canadian Pacific R. R. and the freight service between American ports and Japan is cramped on this account.

One peculiar result of the recent severe floods in Japan is a scarcity of box material, also of dry sand, etc., for bulb packing purposes.

There is much speculation as to the drift of prices on onion sets. It is pretty safe to say that the drift will be upward.

George Stumpp, of Stumpp & Walter Co., New York, has gone south for an extended trip, combining business and pleasure.

Neil Dunning, of the Stumpp & Walter Co. forces, has been critically ill with pneumonia during the past week.

The American Pure Seed Co., now located at Evansville, Ind., has advanced the par value of stock to \$25.

The Iowa Seed Co., at Des Moines, Ia., have recently added a new house to their range of thirty-one.

Lilium lancifolium album is again reported in short supply in Japan.

PLANT IMPORTS.

There were entered at the port of New York during the two weeks from October 30 to November 12, inclusive, the following plants, etc.:

Via Rotterdam: C. C. Abel, 77 cs. bulbs; H. F. Darrow, 37 cs. plants, 5 cs. flower roots; John Dunn, 7 cs. plants; Wm. Elliott & Sons, 8 cs. bulbs, 29 cs. plants, 14 cs. trees; P. Henderson & Co., 23 cs. plants, 16 cs. bulbs, and plants; R. F. Lang, 1 cs. bulbs; McHutchison & Co., 151 cs. plants; P. Ouwerkerk, 90 cs. trees; C. B. Richard & Co., 39 cs. plants; August Rolker & Sons, 13 cs. do., 14 cs. bulbs; Stumpp & Walter Co., 17 cs. plants; Ter Kuile, 1 cs. bulbs; J. M. Thorburn & Co., 75 cs. bulbs, 198 bls. garden seed; Vaughan's Seed Store, 17cs. plants, 39 cs. trees, 124 pgs. bulbs and plants; Wakem & McLaughlin, 15 cs. plants; R. M. Ward & Co., 1 cs. flower roots; Sundry forwarders, 500 cs. plants, 128 cs. trees and shrubs, 250 cs. flower roots, 200 cs. trees and bulbs, 2 cs. bulbs.

Via Southampton: Sundry forwarders, 10 cs. seedlings, 3 cs. trees, 4 cs. plants, 1 cs. bulbs.

Via Liverpool: Sundry forwarders, 15 cs. trees.

Via London: Sundry forwarders, 2 cs. rose trees.

Via Antwerp: H. F. Darrow, 187 cs. plants, 4 tubs laurel trees; Philip

Einsman, 34 cs. plants; Wm. Elliott & Sons, 4 cs. do.; McHutchison & Co., 97 cs. do., 2 tubs laurel trees; R. F. Lang, 40 cs. plants; Chas. F. Meyer, 174 cs. do., 2 tubs laurel trees; T. H. Petry & Co., 32 cs. plants; C. B. Richard & Co., 191 cs. do., 290 tubs laurel trees; August Rolker & Sons, 107 cs. plants; Stumpp & Walter Co., 1 cs. plants; Ter Kuile, 24 cs. plants, 4 cs. laurel trees; Wakem & McLaughlin, 3 cs. plants; Sundry forwarders, 561 cs. laurel trees, 173 cs. plants.

From Germany: H. F. Darrow, 79 cs. lily of the valley pips; R. F. Lang, 4 cs. do.; F. R. Pierson Co., 250 cs. do.; August Rolker & Sons, 5 cs. plants; J. Roehrs Co., 53 cs. do.; A. Schultheis, 20 cs. lily of the valley pips; J. M. Thorburn & Co., 33 cs. do.; Vaughan's Seed Store, 130 cs. do.; R. M. Ward & Co., 120 cs. do; Sundry forwarders, 272 cs. do., 17 cs. plants.

SUMMARY OF NOVEMBER CROP REPORT.

The following table gives the summary of the November Crop Report of the Bureau of Statistics of the Department of Agriculture, showing yield per acre, production and quality of various products this year, with comparisons.

PRODUCTS.	Oct. 1907.	Final 1906.	Final 1905.
Corn:			
Yield bu. per acre...	26.0	30.3	28.8
Quality per cent.....	82.8	89.9	90.6
On hand per cent.....	4.5	4.4	3.5
Buckwheat:			
Yield bu. per acre....	17.9	18.6	19.2
Quality per cent.....	87.3	90.4	93.0
Tobacco:			
Yield lbs. per acre....	858.3	857.2	815.6
Quality per cent.....	90.0	84.5	87.6
Rice:			
Yield bu. per acre....	33.1	31.1	28.1
Flaxseed:			
Yield bu. per acre....	9.0	10.2	11.2
Quality per cent.....	89.7	92.7	94.6
Potatoes:			
Yield bu. per acre....	95.3	102.2	87.0
Quality per cent.....	88.3	90.0	85.4
Apples:			
Product per cent.....	32.1	69.1	41.3
Grapes:			
Product per cent....	78.4	83.3	77.6
Pears:			
Product per cent	44.3	74.3	61.8
S. Potatoes:			
Yield bu. per acre....	87.5	90.0	92.6
Quality per cent.....	85.7	87.4	91.3
Sugar Cane:			
Condition	91.1	79.7	
Sorghum:			
Yield gals. per acre..	90.8	95.7	
Sugar Beets:			
Condition	90.4	95.5	
Cranberries:			
Product per cent.....	78.2	84.8	
Peanuts:			
Product per cent.....	83.4	80.3	

CATALOGUES RECEIVED.

W. Atlee Burpee, Philadelphia.—Advance wholesale prices for 1908.

Souper & Notting, Luxembourg. Folder of new rose introductions for 1907.

P. Ouwerkerk, Weehawken Heights, N. J., representing Association Flora, Boskoop, Holland. Nursery trade of roses, clematis, azaleas, shrubs and herbaceous plants. The list of confifers is especially large.

The Cornell Countryman for November is a fine example of magazine making. Typographically it belongs in the front rank and the contents are of a high character and well diversified. The cover is adorned with a handsome chrysanthemum portrait. Published at Cornell University, Ithaca, N. Y.

COLD STORAGE LILY of the VALLEY

For Christmas-flowering
CASE OF 2,500 PIPS FOR \$35.00

TULIPS For Bedding and Forcing

We offer below a few of the leading varieties for bedding and forcing of which we have the largest stocks
FOR COMPLETE LIST OF VARIETIES, SEND FOR SURPLUS LIST.

SINGLE EARLY TULIPS

Artus. An extra fine scarlet for bedding; also good forcer. \$1.25 per 100, \$11.00 per 1000.
Bizaro V. rdict. 75c. per 100, \$6.00 per 1000.
Cardinal's Hat. \$1.00 per 100, \$8.00 per 1000.
Chry-oliora. \$1.00 per 100, \$7.50 per 1000.
Cottage Maid. \$1.25 per 100, \$9.00 per 1000.
Couleur Ponceau. \$1.00 per 100, \$7.50 per 1000.
Duchesse de Parma. \$1.25 per 100, \$10 per 1000.
La Reine. \$1.00 per 100, \$8.00 per 1000.
L'Immaculee. 80c. per 100, \$6.50 per 1000.
Yellow Prince. \$1.00 per 100, \$8.50 per 1000.

SINGLE LATE TULIPS

Byblooms. \$1.00 per 100, \$8.00 per 1000.
Darwin. \$1.25 per 100, \$10.00 per 1000.
Golden Crown 75c. per 100, \$6.50 per 1000.
Parrots. Named, four best sorts. \$1.25 per 100. All colors mixed, \$1.00 per 100, \$7.50 per 1000.

DOUBLE TULIPS

Count of Leicester. \$1.00 per 100, \$7.50 per 1000.
Duke of York. \$1.00 per 100, \$8.00 per 1000.
Gloria Solis. \$1.50 per 100, \$12.00 per 1000.
Le Blason. \$1.50 per 100, \$12.00 per 1000.
Lurilo \$2.25 per 100, \$19.00 per 1000.
Rose Blanche \$1.00 per 100, \$8.00 per 1000.

NARCISSUS

Empress. Extra sized bulbs, \$1.75 per 100, \$15.00 per 1000.
Emperor. Extra sized bulbs, \$1.75 per 100, \$15.00 per 1000.
Golden Spur. Extra sized bulbs, \$1.75 per 100, \$15.00 per 1000.
Grande Maximus. \$1.25 per 100, \$10.00 per 1000.
Horsfieldi. \$1.50 per 100, \$12.50 per 1000.
Princes. Extra sized bulbs, 75c. per 100, \$6.00 per 1000.
Double Von Sion. First sized bulbs, \$1.25 per 100, \$9.00 per 1000; extra sized bulbs, \$1.50 per 100, \$12.00 per 1000; double-nosed bulbs, \$2.00 per 100, \$18.00 per 1000.

Alba Plena Odorata. 75c. per 100, \$5.50 per 1000.
Orange Phoenix \$1.25 per 100, \$10.00 per 1000.
Paper White Grandiflora. \$1.25 per 100, \$9.00 per 1000.
Mrs. Langtry. \$1.00 per 100, \$7.00 per 1000.
Incomparable Stella. 75c. per 100, \$5.00 per 1000.
Poeticus Ornatus. 75c. per 100, \$6.50 per 1000.

HYACINTHS

Separate Colors. Single, \$2.50 per 100; double, \$2.75 per 100.
Fine Named. A fine selection of varieties, our selection, \$4.00 per 100.
Miniature, or Dutch Romans. A fine assortment of the best named varieties, \$1.75 per 100.

CROCUS

Finest Named Varieties. Baron von Brunow, David Rizzio, Mont Blanc, La Majestueuse, Mammoth Yellow, Purpurea Grandiflora, Queen of the Netherlands, and Sir Walter Scott. 60c. per 100, \$4.00 per 1000.

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK

Grand New Double Daisy

A plant from that great modern king single variety QUEEN ALEXANDRA, that every day grows to a good profit. You can do better with this. The flowers are large, averaging three inches in diameter, and none of the flowers comes single at any time of the year. It blooms freely, either under glass or outdoors. Young stock, out of 2½-inch pots, ready for delivery January 1, \$25.00 per 100.

ORDERS BOOKED NOW.

THE FERNERY, M. THAU, Mgr.

1421 Charles St., North, Baltimore, Md.

DAHLIAS

A long list of varieties true to name. Write for prices.

A. B. DAVIS & SON, INC.
PURCELLVILLE, VA.

MOTHER BULBS

HYACINTHS
and
NARCISSUS

S. G. HARRIS, Tarrytown, N. Y.

JAPANESE
THE YOKOHAMA NURSERY CO. NEW YORK.
31 BARCLAY STR. NEW YORK.
LILIES
PLANTS
BAMBOO STAKES

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World
Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

... ORCHIDS ...

Just to hand, C. Trianae, C. labiata, C. Mossiae, C. lintermedia, C. Schroderae, C. speciosissima, C. Citrina, C. Gaskelliana, Laelia Anceps, L. Albida, L. majalis, L. Autumnalis, Epidendrum Vittellinum majus, E. Cooperianum, Oncidium Crispum, O. Varicosum, O. Cavendishianum, O. Lundum, Odonto Citrosimum. To arrive in a short time, C. Dowiana, C. Aurea, C. Warmrii, Miltonia Vexillaria.
GARRILLO & BALDWIN SECAUCUS, N. J.

ORCHIDS

Just arrived, in fine condition,
Cattleya Trianae (new district).
Oncidium Varicosum Rogersii.
Write for prices.

JOSEPH A. MANDA, 191 Valley Road, WEST ORANGE N. J.

LET US QUOTE

on your wants in Callas, Paper White Grand. Narcissus, 13 cm. up. All Dutch Bulbs, Wood Moss.

D. RUSCONI, 128 West Sixth Street CINCINNATI, OHIO

THE FINEST

Lily of the Valley Excellenta

From cold storage. Only few cases left. Please order at once. \$32.00 per case of 2000 fine pips.

JOHN SCHEEPERS & CO.
4 & 6 Old Slip, - - NEW YORK.

ORCHIDS

The largest importation of Orchids ever received in this country **WILL ARRIVE** next spring from Brazil, Colombia and Venezuela. If you intend putting in stock **wait for these to arrive** and we will quote the **LOWEST PRICES IN AMERICA.**

ORDONEZ BROS.
MADISON, N. J.

THOUSANDS OF ORCHIDS

In sheath, bud and flower.
Write for particulars and catalogue.

JULIUS ROEHRS COMPANY,
Rutherford, New Jersey.

ORCHIDS

Arrived in perfect condition **Cattleya Mossiae**, also **C. Schroderae**, **Laelia Anceps**, **Epidendrum Vittellinum**, etc., etc. Write for prices.

LAGER & HURRELL, Summit, N. J.

A HANDSOME TROPHY.

We picture in this issue the Henry F. Michell Co. vase for the best one hundred blooms of carnations—four varieties—to be exhibited at the exhibition of the American Carnation Society, Washington, D. C., in 1908. It is made of green glass and silver.

The silver is electrically deposited on the glass body of the vase, and has on the back and sides a series of conventional carnations and leaves, which make it thoroughly appropriate as a



prize for this exhibition. On the front is a silver shield, on which is engraved:

Presented
by
Henry F. Michell Co.
Seedsmen
Philadelphia
Penn.
to

On the base of the vase is the inscription.

"For best 100 blooms of Carnations, in four varieties. Exhibited at the National Carnation Exhibition in Washington, D. C., 1908."

The general style is L'Art Nouveau, and is so entirely original and so valuable a prize that it again attracts attention to the generosity of the donors, the Henry F. Michell Co., 1018 Market street, Philadelphia, who have presented several decidedly unusual prizes within the last few months.

EXTRA FINE BOXWOOD \$17.50 per CWT.

GALAX LEAVES GREEN \$1.00 per 1000.
BRONZE, new crop in a few days.

Headquarters for **HARDY FERNS, MOSS, LAUREL, PRINCESS PINE, FESTOONING, Etc.**

Best Ferns in Market \$1.25 per 1000.

See Our Cut Flower Ad.

HENRY M. ROBINSON & CO., FLORISTS' SUPPLIES 15 Province St., and 9 Chapman Pl., BOSTON

LOCAL AND FLORISTS' SHOWS.

The annual chrysanthemum show of the Livingston Seed Co., Columbus, O., was held November 5-9.

The Hingham (Mass.) Agricultural and Horticultural Society held a chrysanthemum show on Friday, November 1.

James A. Tefft's greenhouses at Peacedale, R. I., have presented an attractive variety of the popular chrysanthemums during the past week.

E. J. Finch, of Mishawaka, Ind., is making a display of the newer varieties of chrysanthemums at his greenhouses that is attracting much attention.

W. H. Buckbee, Rockford, Ill., invited the townspeople to enjoy his collection of chrysanthemums prior to their shipment to the St. Louis and Chicago shows.

Chrysanthemum day at the experiment farm, Burlington, Vt., was a revelation to many of the visitors and a gratifying evidence of the ability of the gardener, H. V. F. De Thestrup.

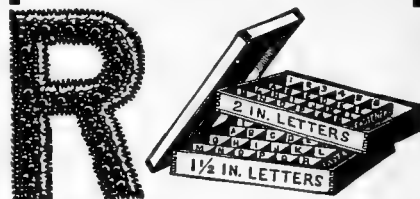
The exhibition at Lincoln Park, Chicago, opened on November 4 and will continue four weeks. Mr. Frey says that his collection of chrysanthemums this year surpasses any previous record.

E. P. Stannard, Westbrook, Conn., has opened his conservatories to the public and the visitors include many from a distance who find his handsome display of chrysanthemums well worth the trip.

The annual chrysanthemum show at the Missouri Botanical Garden, St. Louis, which opened on November 4, was held in a mammoth tent, and during the two weeks' exhibit the usual throngs have been present.

The Ernst Wienhoeber Co., of Chicago, who have taken the rooms over their store on Elm street for an exhibition of their large stock of florists' supplies, added a floral display on October 30 and invited the general public. The roses with which visitors to the Coliseum exhibition later became familiar were chiefly in evidence—Poehlmann Bros.' Mrs. Potter Palmer and Cardinal and Peter Reinberg's Mrs. Marshall Field. There was a large attendance, especially from the north shore.

Another one of the large willows in the Public Garden, Boston, was uprooted by the gale on November 6. An attempt is to be made to derrick it back into position, where it will be secured by steel guys.

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Manufacturers of FLORISTS' LETTERS

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

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AND EMBLEMS

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KORAL MFG. CO.
26 Hawley St., Boston

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Sizes in Stock

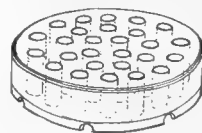
per 100

3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

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Sells to the trade on sight.

Made of glass in three sizes.

The "Anglais" Table

Decoration, something

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The florist and housewife

will appreciate this article,

as it simplifies the art of

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130 Waiola Ave., La Grange, Ill.



American Flower and Tree Tub.

No.	Top.	Deep	Price
1	13 1/2	12	\$1.00
2	14 1/2	14	1.25
3	16	16	1.50
4	19	18	2.00
5	21	20	3.00
6	25	22	4.00
7	25 1/2	24	5.50

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and any town in Missouri or Kansas.

ALBANY, N. Y.

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Flowers or Design Work

DELIVERED IN AL ANY AND VICINITY
ON TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N.Y.

NEWS NOTES.

D. G. Dagleash of Pittsburg will
hereafter be found with Geo. H. Cooke,
Washington, D. C.

A. P. Henderson, Centre Hanover,
Mass., has started in the hardy fern
business for the season.

The J. W. Lyon Company, Belvidere,
Ill., has changed its name to the Bel-
videre Plant and Floral Company.

F. L. Hotchkiss, florist and gardener
of Seymour, Conn., has purchased the
Stillson block at Ansonia as an invest-
ment.

C. B. Stow, Kingston, N. Y., not-
withstanding the recent fire, has kept
his place open during repairs which
are progressing as rapidly as possible.

Charles Greenwood, for many years
city forester, is prominently mentioned
for the vacancy on the parks commis-
sion of Worcester, Mass., caused by
the death of O. B. Hadwen.

Jas. J. Harty, for eight years a
clerk with Z. D. Blackstone, opened
a wholesale flower commission house
in Washington, D. C., on November
11th. Thus a long felt want will be
filled and we wish Mr. Harty every
success.

NEW RETAIL FLOWER STORES.

Peter Mergen, Maryville, Mo.
J. M. Holland, Berkeley, Calif.
Jefferson Floral Co., Jefferson City,
Mo.

Michael Glinka, 2210 Woodland ave-
nue, Cleveland, O.



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HOUGHTON & CLARK
396 Blyston St., Boston, Ma s.

Send flower orders for delivery in

BOSTON
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NEW ENGLAND POINTS
THOS. F. CALVIN
124 Tremont St., Boston

TRANSFER

Your orders for flower or plant delivery in
Eastern New England to

JULIUS A. ZINN,
2 Beacon St., Boston.
Fine Design Work a Specialty

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Long Distance Phones: Bell, Forest 56; Kinloch, Delmar
4832 Delmar Boul. ST. LOUIS, MO.

ATLANTA FLORAL CO.
41 Peachtree Street, ATLANTA GEORGIA.

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Taking orders for delivery in
New York or Vicinity
can have them filled in best
manner and specially deliv-
ered by * * *

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ALEX. McCONNELL

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NEW YORK CITY

Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
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our selection for delivery on steamships
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Special Attention to Theatre
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Telephone 1552-1553 Columbus

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NEW YORK.

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\$6.00 per dozen

CYPRIPEDIUMS

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PHILADELPHIA, PA.****AMERICAN BEAUTY** and all other
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**WHOLESALE FLOWER MARKETS
TRADE PRICES—Per 100—TO DEALERS ONLY**

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	Nov. 12		Nov. 12		Nov. 12		Nov. 14	
ROSES								
Am. Beauty, Fanc. and Special...	35.00	to 40.00	30.00	to 36.00	20.00	to 25.00	20.00	to 25.00
" Ex ra.....	20.00	to 30.00	20.00	to 25.00	12.50	to 15.00	15.00	to 20.00
" No. 1.....	10.00	to 15.00	8.00	to 15.00	8.00	to 10.00	12.00	to 15.00
" Lower grades.....	6.00	to 8.00	3.00	to 5.00	5.00	to 8.00	2.00	to 6.00
Bride, *Maid, Golden Gate, F. & S.	6.00	to 8.00	3.00	to 6.00	6.00	to 8.00	3.00	to 4.00
" " Low. gr.....	4.00	to 5.00	2.00	to 3.00	2.00	to 4.00	.50	to 2.00
Liberty, Richmond, Chat nay F&S	6.00	to 8.00	3.00	to 8.00	6.00	to 8.00	3.00	to 6.00
" " Lower grades.....	4.00	to 5.00	2.00	to 3.00	2.00	to 4.00	.50	to 2.00
Killarney, Wellesley, Fan. & Sp...	6.00	to 8.00	4.00	to 8.00	6.00	to 8.00	3.00	to 6.00
" " Lower grades.....	4.00	to 5.00	3.00	to 4.00	2.00	to 4.00	.50	to 2.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 4.00	....	to 4.00	2.00	to 3.00	1.00	to 1.50
Ordinary.....	1.00	to 2.00	....	to 3.00	1.00	to 2.00	.50	to .75
MISCELLANEOUS								
Violes.....	.75	to 1.50	....	to 1.00	.75	to 1.00	.50	to .60
Cattleyas.....	50.00	to 60.00	....	to 50.00	50.00	to 60.00	....	to 50.00
Lilies.....	12.50	to 16.00	....	to 15.00	12.50	to 15.00	8.00	to 10.00
Lily of the Valley.....	3.00	to 5.00	....	to 4.00	2.00	to 4.00	2.00	to 3.00
Chrys: nthemums, Fancy.....	25.00	to 30.00	25.00	to 33.00	20.00	to 30.00	8.00	to 12.00
" " Ordinary.....	6.00	to 15.00	8.00	to 16.00	10.00	to 12.50	2.00	to 6.00
Adiantum.....	.75	to 1.50	....	to 1.00	1.00	to 1.50	1.00	to 1.50
Smilax.....	12.00	to 18.00	....	to 12.00	12.50	to 15.00	8.00	to 12.00
Asparagus Plumosus, strings.....	35.00	to 50.00	to 50.00	to 50.00	to 50.00
" " & Sprea. (100 bchs.)	35.00	to 55.00	to 25.00	25.00	to 50.00	20.00	to 50.00

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Without a rival in knowledge of the requirements of the trade and the ability to supply them. Our New Illustrated Catalogue, recognized as a work of art unprecedented in its line for variety, novelty and completeness, tells the story fully, and if you have not yet sent for it, do so now.

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==AZALEAS==Extra fine lot of **FIREFLY** in bloom from**THANKSGIVING to EASTER**

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MAJOR BONNAFFONThe best all 'round Yellow Chrysanthemum. Strong stools,
\$5.00 per 100**W. W. EDGAR CO., Waverley, Mass.****To Make the Store Pay**

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WINDOW BOXES are in the minds of every householder at present.**Have You a Good Assortment of Suitable Plants to Show Customers?** If not, send at once to Samuel C. Moon, Morrisville, Bucks Co., Pa., for sample order. He furnishes**HARDY EVERGREENS** stocky little plants of Juniper, Thuja, Retinospora, etc., at \$15.00 per 100; \$2.00 per doz. **Send to-day.** You are losing business by every hour's delay.**SAMUEL C. MOON, MORRISVILLE, PENNA. BUCKS CO.,****FLOWER MARKET REPORTS**

BOSTON Conditions continue very unsatisfactory in this market, the receipts of flowers of all varieties and grades having increased rapidly and without any corresponding growth in the demand but rather a falling off, and the accumulation in wholesalers' hands is simply hopeless in its dimensions. There is one spark of life this week—the call for violets for the adornment of the Yale hosts in the football scrimmage on Saturday. Chrysanthemums are now in the zenith of their glory, but even the best of them realize only a humble price.

Nothing favorable can be reported for the past two weeks, as business throughout the city and surrounding country has practically been at a standstill. Stock of all kinds poured in on the wholesaler, with very little outlet. Reports from the trade claim that nothing is doing and therefore only what little is needed is taken and then at prices way below quotations. From Beauties down to lily of the valley the supply has been heavy. Chrysanthemums have not sold as rapidly as they should and select stock can be had at very low prices. The ordinary kinds block up considerably and are carried along from day to day. The same may be said of roses. Selects are not too plentiful but the coolers are overflowing with seconds and medium grades. Carnations are gaining in quantity daily and choice stock sells readily, but there are too many short stems. Violets have sold well. Lilies in heavy supply; demand light. The only article that is scarce is bronze galax.

Last week was not as flourishing as the one previous. Still we are far from having a glut even if the chrysanthemums do cause roses to accumulate somewhat. The retail price of violets has advanced; supply is more plentiful and quality is still improving. There is some great work in the decoration line in sight, one firm having already booked orders for large decorations. Among this week's florists' windows one display of a variety of orchids and another of wild smilax, cat-tleas and white cosmos were noticeable.

INDIANAPOLIS The volume of business is about up to the standard for the season, there being dull days and busy ones. Chrysanthemums fairly monopolize the market, bringing down the prices of other stock. The quality of all is excellent, the top grades being good enough to suit the most critical buyers. Fancy Easter lilies are arriving in good quantity. Carnations still remain a little scarce. Lily of the valley finds scarcely any demand and some elegant stock has found its way to the barrel. Some Roman hyacinths and narcissus are seen in small lots. Violets are selling well, but few coming in. Beauties and teas of excellent quality are in ample supply. The market for greens is in good condition. There is quite a trade in evergreens for window boxes as well as specimens in tubs.

NEW YORK Colder and more seasonable weather prevails and should reasonably bring about conditions more nearly normal in the cut flower market. Thus far, however, this much-to-be-desired condition has not put in an appearance. The unfortunate combination of chrysanthemum season, financial stringency and other drawbacks of minor importance has borne heavily on the wholesalers, who are at their wits' end to move the material which is poured in daily and at best they are unable to realize on the stock what the growers should reasonably count upon. The retail stores are finding things very dull, and their complaint is only less emphatic than that of the wholesalers. Many of the good buyers have not yet moved into town and others are practicing economy of the most rigid type.

PHILADELPHIA Far too many flowers arrived in this market last week for the demand. This was true not only of chrysanthemums but of roses, carnations and other staples. Stock had to be very fancy indeed to find a market at any price. Bonaffon, Eaton, Appleton, Chadwick and Golden Wedding were among the best selling chrysanthemums. Hudson River violets are plentiful. Mignonetti is improving and sells well. Evergreens for window boxes and vases, and cut boxwood find brisk markets. A hopeful tone prevails as the new week opens.

PACIFIC COAST NOTES.

Frank Mills of Palo Alto has opened a flower store in that town.

J. J. O'Connor, San Francisco, has removed to Fillmore street, near Hayes street.

The Las Palma Greenhouses, Flint & Flint, proprietors, D. W. Tuttle, manager, are also doing a retail business in Palo Alto.

The store recently opened by Miss Clack, of which HORTICULTURE gave early notice, was the first florist store in Palo Alto, but all report a fair trade.

E. W. McClellan & Co. have leased the Glenwood Nurseries at Burlingame for a term of years. They will run this place in connection with their nursery.

BUSINESS CHANGES.

M. Stauch has taken a position with Joy & Sons Co., Nashville, Tenn.

Frank Deery of Brockton is now with Julius A. Zinn, 2 Beacon street, Boston.

The Kroeber Greenhouses, New Bedford, Mass., are now carried on by Wm. Mosher.

L. Schroeder succeeds Schroeder & Myer, florists, dissolved, at South Holland, Ill.

John Melville and Frank Parkman, Jr., are starting in business at Green Bay, Wis.

E. A. Butler, florist, of Niagara Falls, N. J., fell from a tree recently and fractured his collar bone.

INCORPORATED.

Edlefsen-Leideger Co., Milwaukee, Wis.; Wm. Edlefsen, R. Leideger, A. R. Leideger; capital, \$15,000.

ROBERT J. DYSART,**Public Accountant and Auditor**

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COMMISSION
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Madison Sq.

We have a good regular outlet for seasonable flowers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Nov. 9 1907	First Half of Week beginning Nov. 11 1907		Last Half of Week ending Nov. 9 1907	First Half of Week beginning Nov. 11 1907
Roses			Carnations, Fancy and Novelties.	1.00 to 2.00	1.00 to 2.00
Am. Beauty, fan and sp.	10.00 to 20.00	10.00 to 20.00	Ordinary .....	.25 to .50	.25 to .50
“ extra	8.00 to 12.00	8.00 to 12.00	Violets .....	.25 to .40	.25 to .40
“ No. 1	4.00 to 6.00	4.00 to 6.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
Lower grades .....	..... to 1.00	..... to 1.00	Lilies	4.00 to 6.00	4.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp	.50 to 4.00	.50 to 4.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
Liberty, Richmond, fancy & special	.50 to 4.00	.50 to 4.00	Gardenias	10.00 to 35.00	10.00 to 35.00
lower grades ..	..... to .50	..... to .50	Chrysan hemums, Fancy	10.00 to 15.00	10.00 to 15.00
Killarney, Wellesley, fan, and spec.	.50 to 4.00	.50 to 4.00	Ordinary	1.00 to 2.00	1.00 to 2.00
lower grades ..	..... to .50	..... to .50	Adiantum	1.00 to 1.25	1.00 to 1.25
			Smilax	8.00 to 10.00	8.00 to 10.00
			Asparagus Plumosus, strings	25.00 to 40.00	25.00 to 40.00
			“ “ & Spreu. (too bchs.) to 15.00 to 15.00

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Extra	25.00 to 30.00	25.00 to 30.00	12.00 to 20.00	12.00 to 15.00
No. 1	15.00 to 20.00	25.00 to 30.00	8.00 to 10.00	0.00 to 10.00
Lower grades	8.00 to 10.00	8.00 to 12.00	3.00 to 8.00	0.00 to 4.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	8.00 to 12.00	7.00 to 10.00	5.00 to 8.00
Low gr.	3.00 to 4.00	4.00 to 6.00	2.00 to 7.00	3.00 to 4.00
Liberty, Richmond, Chateauf, F&S	6.00 to 8.00	8.00 to 12.00	6.00 to 8.00	5.00 to 8.00
Lower grades	3.00 to 4.00	4.00 to 6.00	2.00 to 6.00	3.00 to 4.00
Kaiserin, Carnot, Fan. & Sp.	0.00 to 0.00	0.00 to 0.00	0.00 to 0.00	0.00 to 0.00
Lower grades	0.00 to 0.00	0.00 to 0.00	0.00 to 0.00	0.00 to 0.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	8.00 to 12.00	8.00 to 10.00	5.00 to 8.00
Lower grades	3.00 to 4.00	4.00 to 6.00	5.00 to 6.00	3.00 to 4.00
CARNATIONS				
Fancy and Novelties	0.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00
Ordinary	1.00 to 2.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
MISCELLANEOUS				
Violets	.50 to .75	.50 to .75	.60 to .75	.75 to 1.00
Cattleyas	50.00 to 60.00	50.00 to 60.00	40.00 to 50.00	50.00 to 60.00
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Callas, Narcissi, Dutch Bulbs.

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Tulips, Hyacinths, Narcissi, Crocuses.

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Seasonable Import Plants and Bulbs.

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Lily of the Valley Excellenta.

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Chrysanthemum Stock Plants.

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New Double Daisy.

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Forget-me-nots, 100,000 Strong Stocky Plants, alpestris blue and white, Victoria. Robusta grandiflora, Eliza Fanrobert, \$2.50 per 1000. **Gustave Freytag**, Hilltop Pl., W. Orange, N. J.

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Gladioli. Write for leaflet. **B. Hammond Tracy**, Cedar Acres, Wenham, Mass.

Augusta gladioli, and white and light. **Rowehl & Granz**, Hicksville, L. I., N. Y.

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GLASS, High Grade, Double Thick Greenhouse Glass. **Lord & Burnham**, 1133 Broadway, N. Y.

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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). **Lord & Burnham**, 1133 Broadway, N. Y.

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GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouse, New Truss Houses and Iron Frame Houses. **Lord & Burnham**, 1133 Broadway, N. Y.

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Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Leid & Burnham, 1133 Broadway, N. Y.

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Florists' Hall Asso. of America.
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Fancy Ferns.
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Carman's Anti-pest.
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W. W. Rawson & Co., 5 Union St., Boston.
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Benjamin Hammond, Fishkill-on-Hudson, N. Y.
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Nicotide kills all greenhouse pests.
P. R. Paethorpe Co.,
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Iris pallida Dalmatica, fine lavender blue, the largest and finest variety of all the German Irises; divisions, \$15.00 per 100. Cash with order. J. A. Peterson, Westwood, Cincinnati, Ohio.

JAPANESE LILIES.

Ralph M. Ward & Co., 12 W. Broadway, New York.
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Send for New Illustrated Catalogue.
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Mills the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LOBELIAS

LOBELIA KATULEEN MALLARD.

New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 12 W. Broadway and 227 Greenwich St., New York.
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MUSHROOM SPAWN

100 lbs. best English, \$6; 250 lbs. at 5½¢; brick prepaid, 22¢. J. J. Styer, Concordville, Pa.

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PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice pansy plants, 50c. per 100; \$4.00 per 1000. Cash. Aug. Zirngiebel, Needham, Mass.

100,000 Pansy Plants assorted Var. named, \$3 per 1000; Giant flowering mix., \$2.50 per 1000. Gustave Freytag, Hilltop Pl., W. Orange, N. J.

Pansies. The world's finest mixture. good size for planting in cold frames, \$2.50 per 1,000. Transplanted, \$4.00 per 1,000. Cash. E. Fryer, Johnstown, Pa.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat, Leaf-Mould, Live Sphagnum moss, Baled Sphagnum moss, Green Clump moss, etc. Jobbers' list on application. C. W. Brownell & Co., Walden, N. Y.

PEONIES

Peonies and Perennials; Peony, Phlox and Evergreen Manuals, 25 cents each, in stamps. C. S. Harrison's Select Nursery, York, Nebr.

PHOENIX ROEBELINI SEED

Yokohama Nursery Co., 31 Barclay St., New York.
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PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIVET

Privet Amurense, all sizes. Write for trade list. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

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Samples free. Large assortment of colors. R. H. Comey Co., Camden, N. J., or, 810-824 Washburn Ave., Chicago.

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1129 Arch St., Philadelphia, Pa.

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J. Lambert, 150 Nassau St., New York, N. Y.

Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Crimson Ramblers, extra strong, 3-yr., for forcing, at 9 cts.. Gilbert Costich, Rochester, N. Y.

Pink and White Maman Cochet and Mrs. Cant, strong, field-grown rose plants, suitable for 6-in. or larger pots, \$7.00 per 100. Cash or C. O. D. John Peterson, Lake George, N. Y.

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. I.

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1129 Arch St., Philadelphia, Pa.

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Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O

VEGETABLE PLANTS

Tomatoes for forcing, 2 1-2 in. Comet, \$2.50; Lorillard, \$2.00 per 100. Roney Bros., West Grove, Pa.

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VENTILATING MACHINERY. New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

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Violets, 3,000 A-1 field grown Marie Louis, \$4.00 100. Cash. This is fine, healthy, clean stock. Frank Berry, Stillwater, Minn.

Violets—30,000 strong, healthy, field-grown Campbell and California No. 1, at \$2.50 per 100; \$20 per 1,000. No. 2, good plants, at \$1.50 per 100; \$12 per 1,000. Satisfaction guaranteed or money returned. None better. The California, extra large and fine clumps, packed to Carry Safely. I have shipped over 10,000 already with entire satisfaction. Chas. Black, Hightstown, N. J.

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The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

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H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

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EXCHANGE

To Exchange Mums, stock plants for other stock. What have you to offer? John Irwin & Sons, Bay City, Mich.

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Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

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SITUATION WANTED by gardener with good record, private place preferred. Married, two children. Address N., care HORTICULTURE.

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FOR SALE

FOR SALE—A well equipped new greenhouse, 80 feet long, 21 feet wide; new boiler house, new boiler and pipes and four other greenhouses, 60 feet long, attached. A large house, 12 rooms; also stable. A most desirable place in city of 15,000, and the oldest greenhouse plant in this section, and doing the largest business; or to rent to a man of energy and push. Chas. Z. Taylor, Middletown, N. Y.

GREENHOUSES FOR SALE—About 25,000 feet of glass; well stocked, 5000 roses, 2000 pinks, 2000 violets, 400 callas and 300 feet Asparagus Sprenger. One new house this year 160 x 53 feet. Reason for selling, other business takes all of owner's time. Well located for large retail trade. Also handy to the Boston market. Address R. A. B., care HORTICULTURE.

FOR SALE—One top delivery wagon and one open delivery wagon, suitable for a florist's use; almost new and in good order; also a pair of good delivery horses; the above can be bought at your own price. Ed. Higons, 146 West 28th St., New York.

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MONTREAL, P. Q.—Gabriel Vrengde, 27 Ontario Ave.
NEWPORT, R. I.—David McIntosh, Ledge Road.
MINNEAPOLIS, MINN.—C. N. Ruedlinger, 2924 So. Aldrich Ave.
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Centrally Located in Massachusetts

This is the chance of a life-time to get into the Rose Growing Business. Present lessee about to build new plant in another State. 8000 Roses now in full crop and first-class condition. Terms and all particulars on request.

A BARGAIN

Address M. R. Care Horticulture, 11 Hamilton Place, Boston

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Leuthy A. & Co. 630	Wilson. 647
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Michell H. F. Co. 641	Zinn, J. A. 647
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OBITUARY.

August Loeber.

August Loeber, late traveling salesman for Arthur T. Boddington through the Southern and New England States, died Friday, November 8th, at the New York Hospital after a protracted illness of more than six months.

He caught cold last spring which developed into rheumatic fever, pneumonia, pleurisy and indocarditis of the heart from which last he never really recovered and which was the ultimate cause of his death.

Mr. Loeber was born in Holland twenty-six years ago and traveled in this country previous to serving Mr. Boddington for the Continental Bulb Company, Hillegom, and was most successful as a traveling representative. During the short time he traveled here he became thoroughly acquainted with American methods. He was a lovable man and was popular with all with whom he came in contact, bright, alert and a good friend, generous to a fault. He had no relations in this country, but many friends who will mourn his loss and sympathize with his parents in their sad bereavement. We laid him away in Kensico Cemetery.

H. A. B.

Dexter M. Ferry.

Dexter M. Ferry, founder and head of the world-renowned seed house of D. M. Ferry & Co., died suddenly on the morning of Nov. 11, of heart disease. He was born in Lowville, Lewis Co., N. Y., Aug. 8, 1833. When he was 16 years old he went to Detroit and worked as errand boy for a stationery house. In 1856 he was organizer and junior partner of the firm of M. T. Gardner & Co., seedsmen. This firm became D. M. Ferry & Co., in 1867. The original organizers were D. M. Ferry, H. W. White, C. C. Bowen, A. E. F. White. Mr. Ferry married Miss Addie E. Miller of Unadilla, Otsego Co., N. Y., Oct. 1, 1867. His wife died one year ago. He leaves a son, D. M. Ferry, Jr., and two daughters. He was president and director of several local banks and various manufacturing and charitable institutions. His untiring, straight-forward business manner and his unostentatious but ever-ready charity made him respected and beloved by all.

James H. Spencer.

James H. Spencer, of Warren, Mass., died on November 5 at the home of his daughter, Mrs. Fairbanks. He lived to the advanced age of 90, and until within three months was actively engaged in gardening.

James A. Danver.

James A. Danver, formerly a florist at Simsbury, Conn., died on November 1, aged 57.

Edwin S. Burnap.

Edwin S. Burnap, a well known market gardener of Fitchburg, Mass., died on November 7.

Adelia D. Ostertag.

Mrs. Adelia D., wife of Henry C. Ostertag, of St. Louis, Mo., died on November 3.

NEWS NOTES.

The Griswold Greenhouses, Ashtabula, O., have increased their capital stock from \$50,000 to \$100,000.

W. F. Ross, formerly with the F. R. Pierson Company, has been appointed superintendent for F. R. Chambers, Bronxville, N. Y.

Several owners of summer residences in Newport were heavy sufferers by reason of the recent panic in Wall street and elsewhere, with the result that gardeners' help is reduced in several instances.

Four plants of *Nephrolepis superbissima* were exhibited at Crystal Palace, London, on Tuesday of this week in charge of J. R. Fotheringham, who is now in England representing the F. R. Pierson Company.

The Lord & Burnham Company have put up two good houses, each 18x75 and a roomy potting shed for the Park Board of Minneapolis. The houses are now well stocked and will be of great help in raising the large amount of bedding plants annually required for the parks.

Orrigoni & Cavalluzzo have the contract for the planting of 2000 trees in eleven streets in the Bronx section of New York City, which must be completed by June 1, 1908. All their work is being done under the supervision of inspectors appointed by Samuel Parson, the city landscape gardener.

The trees will include American and English elms and lindens, ash, Norway maples, horse chestnuts and Oriental planes. Many of the elms and lindens, according to the contractors, will be imported, as trees which will meet the requirements of the contract are said to be hard to obtain in this country.

Extensive improvements are contemplated by Mr. Geo. Gordon King to his Newport estate, where Andrew Ramsay is gardener. E. L. Beard, formerly of Shady Hill Nurseries, is reported to have secured a contract to plant and otherwise improve the grounds of the Pembroke Jones estate on Bellevue avenue, Newport.

Park Supt Wirth of Minneapolis took the commissioners around last Saturday to inspect the new rose garden and the greenhouses. They expressed their appreciation of the thorough work that has been done and did not hesitate to appropriate money for grading around the greenhouses and for acquiring more machinery for the already pretty well equipped machine shop.

The plants in the Hodgson greenhouses at Newport, R. I., were sold at auction November 4th. There were some fairly good plants and a great many poor ones in the houses. The prices realized were low in the extreme, only about \$970 for everything—plants, pots, vases and fixtures. The greenhouses and cottage were sold to Mr. Spaulding for \$11,300, a very low price for such a property. Messrs. Spaulding & Hodgson intend to reopen the greenhouse in the spring.

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PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

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N. Abington, Mass.—A. S. Reed, one house.

Plum Run, O.—Workman Bros., one house.

E. Oceanic, N. J.—Wm. Mears, house 22 x 217.

Milwaukee, Wis.—G. N. Pohl, range of houses.

Washington, D. C.—Robt. Bowdler, one house.

Northampton, Mass.—G. A. Parsons, one house.

Des Moines, Ia.—Iowa Seed Co., 185 ft. addition.

Slingerlands, N. Y.—Fred Goldring, three houses.

Oberlin, O.—H. A. Cook, vegetable house, 32 x 60.

Bellows Falls, Vt.—G. A. Halliday, house 12 x 40.

N. Beverly, Mass.—A. Kidder, cucumber house.

Green Bay, Wis.—Melville & Parkman, one house.

Milton, Mass.—The Misses Brooks, range of houses.

Rockford, Ill.—W. C. Sadewater, range of houses.

Danielson, Conn.—Franklin & Crosby, house 72x168.

Rockland, Mass.—W. T. Wilson, house 100 ft. long.

Jefferson City, Mo.—Jefferson Floral Co., range of houses.

Utica, N. Y.—Frank McGowan, two houses; W. A. Rowlands, one house.

Bar Harbor, Me.—John I. Kane, conservatory; John J. Emery, conservatory.

R. Vincent, Jr., & Sons, White Marsh, Md. have completed an extensive range of houses, in which no paint has been used for outside or interior wood surface. The wood has all been dipped in creosote and is expected to last for many years without further attention. Twenty minutes' immersion was found to be sufficient time for the preservative to penetrate deep into the wood. The saving by this process over even the first cost of painting is considerable.

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I am in a position to help you to the best solution of this problem. I have done it for others, I can do it for you.

It will be to your advantage to consult me and get quotations on your heating plant either erected complete or for material ready for erection.

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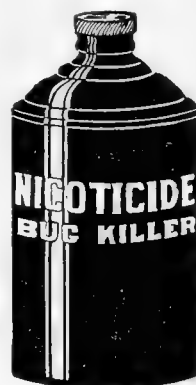
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Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 3 1/4 " " "	5.25	60 8 " " "	3.00
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1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
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500 4 " " "	4.50	24 11 " " "	3.60
320 5 " " "	4.51	24 12 " " "	4.80
144 6 " " "	3.16	12 14 " " "	4.80
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It will cost you nothing to consult us. **W. W. CASTLE,** HEATING ENGINEER 170 SUMMER STREET BOSTON

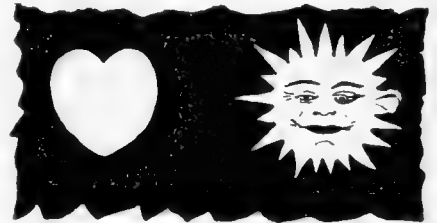


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at once and so keep out
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a back number wooden plate house that festoons itself with
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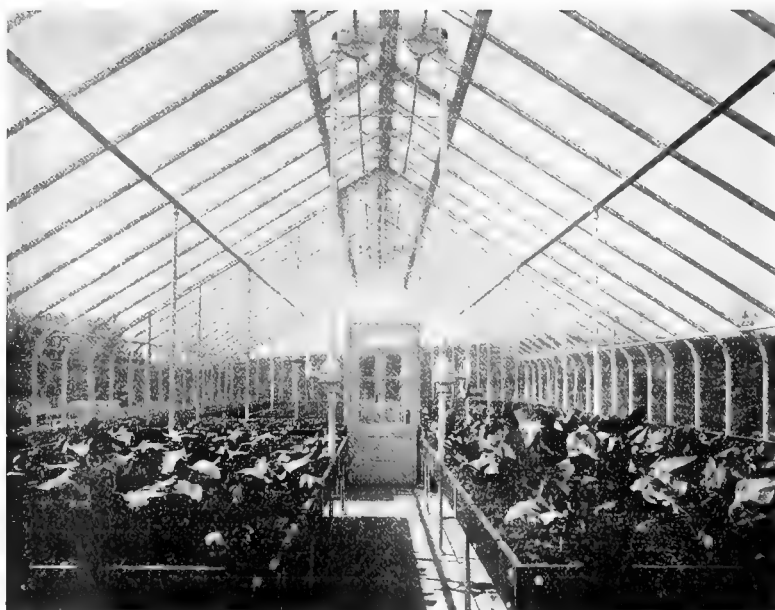
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HORTICULTURE

Vol VI.

NOVEMBER 23, 1907

No. 21



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4. Delicious fragrance.
5. Distinct pleasing color that will sell at sight.
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MRS. JARDINE has all these characteristics, and in addition is of so perfect a form that it can be used either in the bud or half expanded flower. (See illustration, first page Cover "Horticulture" Nov. 2.) The color is bright rosy pink, shading in the outer petals to salmon pink, and even in January when Bridesmaid and Killarney lose their color, Mrs. Jardine is as bright as in October or March.

Mrs. Jardine is not a chance seedling, but was raised by Messrs. Alexander Dickson & Sons, Newtownards, Ireland. This firm has not only given us Liberty and Killarney, but has sent out more new Roses of merit than any other Rosarians in the world. Over two years ago we spent three weeks in their trial grounds, and from three thousand seedlings we selected thirty-five varieties that we thought would be successful in this country for winter

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10-12 "	4.50	35.00	16-18 "	12.00	90.00
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2 ft., each \$.75	3 ft., each \$1.50	4 ft., each \$3.00	5 ft., each \$5.00
2 1-2 ft., " 1.00	3 1-2 ft., " 2.00	4 1-2 ft., " 4.00	6 ft., " 6.00

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	Dozen	100		Dozen	100	1000
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Bushy form, fine field grown plants	2.00	\$15.00	H. P. ROSES , imported, field grown, 2 years old		12.00	\$100.00
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HORTICULTURE.

Ornamental Berried Plants

At this season of the year when Nature's purposes are fully realized in the production of the various forms of fruits, we can appreciate in a measure the great possibilities in ornamental landscape work which many of these fruiting trees and shrubs afford. Among the groups of trees and shrubs valued for their ornamental fruits none is more rich in them than the rosaceous section, to which belong the crabs, thorns and roses, all of which families contain many beautiful fruiting species as *Pyrus baccata* and *P. Aucuparia* or "mountain ash" whose brightly colored fruits from August on are a well-known feature. Several of the "thorns" are at this date (Oct. 20th,) in the height of beauty, conspicuous among them being the American white thorn *Crataegus coccinea* and *C. crus-galli*, whose clusters of showy fruits are such an attraction for our feathered friends.

Of the genus *Rosa* none is more decorative I think than the exotic species *rugosa* whose large berries at this time show up to such good advantage among the still beautiful green foliage. Some of the native species, too, though not so fine as *rugosa* afford, however, a very pleasing fruit display.

Cotoneaster Simonsi and *C. horizontalis*, also kindred to the foregoing are most attractive little shrubs at the present time, both bearing small, red berries in quantity, while the dark green leaves lead one to think them evergreen, which is true of them in a milder climate. The latter species is especially attractive when seen trailing over the surface of a rock.

Many of the *viburnums* figure highly in their fruit display and come in for a fair share of attention from planters. With the various forms at our disposal, bold grouping is made easy and a prolonged effect procured. One species which has interested the writer more than any other this fall is *Viburnum Wrightii* whose beautiful corymbs of firm, red berries show up with much distinctness against the green leaves. This and the old-time favorite *V. opulus* make a worthy pair.

Another shrub which never fails to attract attention wherever planted is *Prinos verticillatus*, well named "deciduous holly"; one cannot but wish it was evergreen for then it would vie with the famous English holly, but nature has ordained otherwise and it is better so perhaps, for, were it clothed as the holly its berries which are clustered closely around the stem would be far less conspicuous than is now the case. *Photinia villosa* is another admirable plant for fall beauty, resembling somewhat the *prinos* but ripening its berries later in the season.

A plant rarely met with in this country, due probably to it being hard to propagate except by seed, or to the idea that it is not strictly hardy except around the coast, is *Hippophae rhamnoides* or "Lea Buckthorn." This plant (the female) produces orange-colored berries in great abundance; it is dioecious and requires the planting of both sexes in close proximity to produce the crop of berries. Native of Britain, it is often seen in

shrub collections there, and its fruit is so persistent as to make it invaluable for winter effects.

The European "Burning Bush," *Euonymus Europæus*, or "spindle tree," is a plant worthy of a wider use in shrubbery plantings. It is more showy than our native *E. atropurpureus*, the carpels as a rule being larger and when in due time these open exposing the orange-colored seeds the effect is extremely pretty.

The white and red-fruited forms of *symphoricarpus* are never slighted when it comes to large plantings which can also be said of the several kinds of *berberis* all of which are very decorative when massed for the sake of their berried display when the landscape is desolate of flowers. While the flowers of many of the berried plants are insignificant, yet to him who knows his plants those inconspicuous floral envelopes signify a harvest of color in due time and the result is never disappointing.

Edwin Matthews.

Dracaena Victoriae

This fine stove plant has stood the usual tests, and deservedly ranks as one of the best novelties introduced in recent years. It belongs to the *Fragrans* section, and closely resembles the well-known *Lindenii* in habit. It is quite distinct in color however; the dark green band is finely striped, and confined to the centre of the leaves, the ground color being a clear gold which turns milk white with age; it must be seen as a specimen to be rightly valued. There are several large plants at Kew some 10 to 12 ft. high, clothed down to the pot with foliage, a somewhat unusual sight with specimen *dracaenas* nowadays. Of course, it is not a table plant being too heavy as a small plant, but as a bold decorative plant it is hard to beat and a few specimens will give great distinction to any stove and greenhouse group of mixed plants.

All this section may be grown with advantage in the intermediate house, though *Victoriæ* must be kept warm in winter, as a damp cold will leave unsightly spots on the beautiful yellow ground which, lacking in green pigment, has little resisting power. A little shade may be given on very bright days, otherwise they enjoy as much light as possible. Keep water off the foliage as it runs down the centres. They should not be overpotted but like all *dracaenas* they abhor sour soil and should be shaken out carefully and repotted at least once annually. Propagate large tops by mossing; the large stem will continue to make quantities of suitable cuttings for many years to come. Unlike the *terminalis* section the varieties of *fragrans* do not form toe roots for propagating and as a result *Victoriæ* is by no means plentiful and small plants are still expensive but as a novelty it is worth securing. It always attracts attention and as a fine foliage plant has an assured future.

Edgar Elwin

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Art in flower and plant composition

Our observations in last week's issue, on the arrangement of decorative plant groups at exhibitions and elsewhere, have called forth some considerable comment, mainly in approval. Florists and gardeners who are nature-lovers are ready to acknowledge the unsatisfying artistic quality, the incongruity and lack of unity of expression in the plant compositions usually seen and would welcome examples or instructive suggestion on lines of

improvement and there is no doubt that intense public and professional interest would attach to any well directed effort to bring out competition on purely artistic and consistent lines at any of the larger shows. To accomplish fully their educational intent a statement of the effect sought and the rules followed should accompany each group, in such shape as to be available for use in the public press and the judges' report should plainly state the basis on which their awards were made. The Society of American Florists might wisely provide for such a class in the great national flower show to be held a year hence. As an incentive to genius nothing more inviting could possibly be presented and our florists as well as those who employ them would have the advantage of an impressive object lesson which would tend to a better discernment of what is really beautiful and fit.

A wise precaution

In periods of business uncertainty and apprehension such as the present he is a happy business man who, because of habits of close attention to accounts and conservative management, is able to say that he knows the actual condition of his affairs and feels secure against any possible adverse financial contingency. There are, in the florist and nursery trade, many concerns that are in a position to make such a statement but we have reason to know that there are also many who are not—many who have never in their mercantile career known what it was to have a properly balanced set of books, whose buying and selling and all other industrial operations are conducted in haphazard manner and who have no means of knowing to a certainty at any time whether their business is being carried on at a profit or at a loss. The present emergency points a moral for such and the time is opportune for making a complete inventory of resources and liabilities and an audit of every record bearing upon same so that the true trend of the business and actual condition of affairs may be known absolutely now and hereafter. Without these facts being available at any and all times, complete control of one's affairs is an impossibility and trouble may come at any time "as a thief in the night." If your business is good for anything it is worth this vigilant attention and, when you get down to a statement of actual conditions, possibly you may find some eye-openers.

The gardener's opportunity

The landscape class of the Gardeners' and Florists' Club of Boston is about to begin the course of study for the season with a somewhat smaller number of students than were in attendance last year. It is difficult to understand why the advantages of this movement are not more fully appreciated by those for whose direct benefit it has been inaugurated. Every gardener should read Loudon's arraignment of the gardeners of his day for their incapacity in landscape designing and if it does not stir him up to take full advantage of such opportunities as are now at his disposal for strengthening his weak points and developing his faculties he has nobody to blame but himself if he never gets beyond the wheelbarrow stage. Loudon wrote:

"It has often struck us with surprise that the proprietors of the finest residences in England, noblemen and gentlemen of high education and refined taste in other things, possessing collections of the finest pictures, and whose eyes must consequently be familiar with all that is noble and beautiful in landscape, should yet commit the laying out of their grounds to their gardeners;..... forgetting that the life of the gardener has been devoted to the study of the culture of plants and not to that of the

composition of forms, and their effect in landscape scenery. Hence it is that many of the most beautiful places in England are at this moment disfigured, etc."

There are plenty of writers today ready to voice the same sentiments. Is the gardener by his indifference going to tacitly subscribe to their truth? There are others who believe the true gardener to be better fitted for practical landscape work than either painter or architect. They have backed up their faith in the most philanthropic manner by establishing these landscape classes, and it is to be hoped that the response may be a hearty one.

British Horticulture

A NOTED ORCHIDIST.

An attractive feature at the fortnightly meeting this week of the Royal Horticultural Society was the magnificent collection of orchids staged by Major G. L. Holford, who was awarded the Society's gold medal, and the gold Lindley medal, the latter in recognition of the superb collection of the plants. For some years Major Holford has had an extensive and valuable collection of orchids at his country seat at Westonbirt, near Tetbury, in Gloucestershire. Here are to be seen a number of awards obtained in recent years, including the Veitchian cup at the Temple show in May this year and many other honors. The Westonbirt collection includes many exquisite specimens of the attractive *Odontoglossum crispum*, and of the best hybrid cattlevas, *laelias*, *laelio-cattleyas*, *sobralias*, and *cymbidiums*. The visitor is bound to admire a very fine *laelio-cattleya elegans*, with 232 blooms which received a silver-gilt Lindley medal from the Royal Horticultural Society for exceptional culture. Mr. H. Alexander, Major Holford's grower has good reason to be proud of it.

BLACK CURRANT MITE.

Some useful experiments have been carried out by Mr. Geo. Massee at The Royal Horticultural Society's gardens at Wisley, with a view to discovering some method of getting rid of the Black Currant Mite. It appears that strips of black paper, coated with a thin layer of vaseline were tied round the main stem and branches at various points of a badly infected bush. The experiment was repeated on a larger scale with cart-grease, palm oil, dripping, and thinned gas tar, as well as with the more expensive vaseline. Mr. Massee records that in every instance the method employed proved a success. A good crop was produced, and the greatest number of big buds found on any one bush after one year's treatment was seven, not a single diseased bud being met with after the second year's treatment. The branch to be treated is held by the tip and a brush, loaded with grease, is rubbed up one side, down the other, taking care to hit the big buds, which need not be removed. This should be done early in the season before the young buds begin to expand, and perhaps again at the end of April. Forty-eight bushes can be easily treated in ten hours. Mr. Massee estimates it to cost about 2d a bush.

NEW CHRYSANTHEMUMS.

The Floral Committee of the National Chrysanthemum Society have recently made a number of awards to new varieties. H. J. Jones, who has put a number of useful varieties on the market, has a new Japanese incurved variety, "H. J. Jones, 1908," which is described as a rich brass-yellow flower; the petals are long and broad. A first-class certificate has been awarded.

A similar award has been obtained by Mr. Jones for Mrs. Wakefield, a typical market bloom of a deep rose tint. Messrs. W. Wells & Co., received a first-class certificate for Mrs. L. Thorne, rich canary yellow with paler reverse; and commendations for Lilian Coppard, bright chestnut with golden reverse; Bouquet Rose, deep rose; Mrs. Earle, creamy white with a yellow disc; Ethel Blades, crimson. P. Ladds, received a first-class certificate for Esmes Reed, a white sport from Mrs. Wingfield, a pink market variety. The Royal Horticultural Society at their meeting this week, granted awards of merit to the following new varieties: Clara Vernum, a rich crimson and gold decorative variety, Clara Wells, an incurved bloom of a creamy tint (shown by Messrs. Wells & Co.); F. W. Lever, Jap. a good white with broad petals, (shown by H. J. Jones); Mrs. G. F. Coster, a golden bronze, similar to Bessie Godfrey; Splendour, a large Japanese incurved, the reverse old-gold, the front side crimson (shown by Martin Silsbury); Romance, bright yellow incurved, (shown by W. J. Godfrey).

W. J. H. Adsett.

Campanulas

(See Frontispiece.)

The campanula although an old-timer, is one of the most useful and decorative of hardy plants. A genus of over three hundred species, it contains annuals, biennials and perennials.

The most popular of these plants is *Campanula Medium*, better known as Canterbury Bell. We all know the beautiful display which can be made with a bed of blue, white, pink or mixed Canterbury Bells out of doors in spring; an equal display can be had for conservatory decoration and the flowers are much better for cutting than many of the annuals we now see grown under glass.

Many of the trailing varieties can be used to advantage for baskets and in the front row of the benches with pleasing effect. The varieties suited for this work are *Campanula isophylla*, *C. i. alba*, *C. i. Mayii*,—the last named of recent introduction, with large blue flowers and woolly foliage,—*C. garganica*, *C. g. alba*, *C. g. hirsuta* and *C. g. h. alba*. These are all rather scarce but can be secured.

Most of the campanulas are admirably adapted for the herbaceous border and with so many species varying in habit they are among the most important of hardy border plants. The most serviceable for cutting, in the perennial section, are *Campanula Moerhemii*, *C. Backhousiana*, *C. latifolia*, *C. laciniata*, *C. glomerata* and *C. rhomboidea*.

Many of the dwarf kinds are particularly attractive and interesting and are suited for the front of the border and the rockery. *Campanula Hendersoni* is the largest of the turbine-flowered. If cultivation is thoroughly attended to these plants will grow vigorously in any ordinary garden soil. Many of them are recommended to be increased only by cuttings or division, unless particular care is taken with the hybridizing.

David Miller

NEWS OF THE CLUBS AND SOCIETIES.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The annual meeting for election of officers was held on Tuesday evening, November 19, over two hundred members being in attendance. The balloting resulted in the re-election of President Thos. H. Westwood, Secretary W. N. Craig and Treasurer Edward Hatch. Wm. Downs was elected vice-president and Messrs. J. K. M. L. Farquhar, Robert Cameron, Peter Miller and E. Johansson, executive committee.

Chairman F. E. Palmer reported for the special committee on boiler legislation, that in accordance with the committee's recommendation, boilers used for horticultural purposes exclusively had been exempted from the provisions of the boiler inspection and licensed fireman law passed by the Massachusetts legislature. Mr. Farquhar announced that the landscape study classes would start on Tuesday evening, December 3rd, at Horticultural Hall, and would meet twice a week for about thirty evenings. Mr. Howard, the instructor, stated that several field days for outdoor practice in the operations taught in the class room would be included. It was announced that the club would hold a field day at Framingham, on December 14, on invitation of S. J. Goddard, Wm. Nicholson and J. T. Butterfield to visit their greenhouses. F. E. Palmer gave notice of a proposed amendment to the by-laws, providing for the nomination of officers from the floor at the November meeting and election to take place at the December meeting.

On the exhibition table were the following: Four vases of carnations from M. A. Patten, to two of which—No 133 and No. 50-24, both crimsons—honorable mention was given; Boston violet from Wm. Sim, which received a report of superior merit, and *Oncidium ornithorhyncum* from James Cartwright.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual meeting of the society was held at Horticultural Hall, Boston, on Nov. 16. President Weld announced that the trustees had allotted \$6,700 in prizes and premiums next year, an increase of \$1,200 over the previous year. William H. Spooner, Horticultural Society representative on the Board of Agriculture, called attention to the annual meeting of the board, which will be held in Horticultural Hall, Dec. 3, 4 and 5. Dr. Augustus Henry, a famous botanist and Chinese traveller and professor of forestry in the University of Cambridge, who is also connected with the Arnold Arboretum, was elected a corresponding member. The following officers were elected unanimously:

President, Stephen M. Weld; vice-president (for two years), Walter Hunnewell; trustees (for three years), Walter C. Baylies, Charles W. Parker, John A. Pettigrew, William Whitman; nominating committee, William H. Bowker, John W. Duncan, J. Henry Fletcher, David F. Roy, Wilfrid Wheeler.

NATIONAL FLOWER SHOW.

The S. A. F. committee of fifty under chairmanship of W. F. Kasting met in Chicago on November 8. Subcommittees were appointed as follows: "American Exhibits," chairman, Philip Breitmeyer, Detroit, Mich.; "Foreign Exhibits," E. G. Hill, Richmond, Ind.; "Premium List," W. N. Rudd, Mt. Greenwood, Ill.; "Advertising and Publicity," P. J. Hauswirth, Chicago; "Local Management Privileges and Concessions," J. C. Vaughan, Chicago; "Special Features," Otto Koenig, St. Louis, Mo.; "Reception," August Poehlmann, Chicago; "Auditing," J. A. Valentine, Denver, Col. I. C. Bertermann, Indianapolis, Ind., was chosen treasurer.

The national rose, carnation and chrysanthemum societies will be invited to co-operate and suggest judges for their respective departments. Horticultural societies at home and abroad will be invited to participate. The date of the exhibition was fixed for November 6-15, inclusive. Guarantors will be requested to meet a 20 per cent. assessment on or before December 10.

NEW ORLEANS HORTICULTURAL SOCIETY.

At the meeting of the above named society on Nov. 14, it was decided that at the next regular meeting the question of a chrysanthemum show for 1938 would be special order of business. This meeting was called a week earlier than usual for chrysanthemum reasons and exhibitors were requested to discuss their individual exhibits. C. R. Panter presented a sport of V. H. Hallock which had been grown for the past five years by its originator, Fred Dormoy for whom it is named. It has all the characteristics of the parent plant with the exception of color which is a combination of buff, straw, and salmon.

Metairie Ridge Nursery Co. exhibited some fine chrysanthemums, American Beauty roses, etc.. C. W. Eichling, B. M. Wichers, J. St. Ward and M. M. Laponyade also contributed.

SCRANTON (PA.) FLORISTS' CLUB.

At the monthly meeting of the S. F. C. on Nov. 7 there were noteworthy exhibits by John E. Haines, Nathan Smith & Son and J. D. Cockroft, all of whom received special commendation. Among other displays T. B. McClintock had attractive design work; Wm. McDonald, chrysanthemums; I. G. Mawr, carnations; J. L. Dillon, floral basket.

New officers were elected as follows: President, Edgar McConnell; vice-president, William Clark; secretary, T. B. McClintock; assistant-secretary, Mrs. T. B. McClintock; treasurer, William McDonald; trustees, D. D. Schultheis, J. Rodham, J. L. Hill, W. McDonald and B. E. Cokely.

A set of silver knives and forks was presented to Mrs. McClintock, who has for three years served as assistant secretary.

ST. LOUIS HORTICULTURAL SOCIETY.

On Wednesday night, Nov. 13th, the Horticultural Society entertained the visitors at a banquet in one of the large rooms in the show building. All the visitors responded and the executive committee of the society. F. W. Brockman was chosen toastmaster. He called for speeches from Harry Young chairman of the executive committee, P. J. Hauswirth, Leonard Kill, J. S. Wilson, E. H. Mann, W. A. Manda, H. W. Buckbee, August Poehlmann, A. G. Koenig, F. H. Meinhardt and others.

ST. LOUIS FLORIST CLUB.

On Thursday afternoon, November 14th, the St. Louis Florist Club extended an invitation to all visiting florists to meet with them at their regular monthly meeting. President W. C. Young presided. 35 members and ten visitors were present and took great interest in the proceedings, especially the questions that came up for answers. After the meeting adjourned the entire party were taken in hand by the trustees to a cafe in the building for supper, after which President Young called on the visitors for a few remarks. The speakers were Phil. J. Hauswirth, W. W. Coles, George Asmus, S. S. Skidelsky, J. J. Karins, Emil Schray, J. F. Ammann, F. H. Weber, A. J. Bentzen.

BLOOMINGTON FLORIST CLUB.

The Bloomington, Ill., Florist Club held their November meeting at A. Washburn & Son's store on the evening of Nov. 14. There was a good attendance. There were several good talks about chrysanthemums. F. L. Washburn read a paper on varieties, also some notes of the Chicago flower show.

Prof. Beal of the University of Illinois talked about insects and the various diseases of the chrysanthemum. Prof. Beal will be in Bloomington a part of the season experimenting with insects and diseases that trouble the florist, and we expect to have him in our midst at most of our meetings.

V. RAY SMOCK, Sec'y.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

Cincinnati, Nov. 16th, Miss Sadie Stremmer, light yellow, sport of Queen, exhibited by T. L. Metcalf, Hopkinsville, Ky., scored 72 points, commercial scale.

Philadelphia, Pa., Nov. 16th, Lynwood Hall, white, Jap. Incurved, exhibited by Wm. Klienheinz, Ogontz, Pa., scored 89 points commercial and 86 points exhibition scale.

DAVID FRASER, Sec'y.

A CORRECTION.

Frank E. Witney calls our attention to the fact that the first prize for table decoration at the Poughkeepsie exhibition was won by Winthrop Sargent, and not by the Salford Flower Shop as given in our issue of last week and that the latter won second prize.

THE EXHIBITION SEASON

EXHIBITION OF THE WASHINGTON FLORISTS' CLUB.

Nov. 12 will always remain a red-letter day in the calendar of the flower-loving Washington public. At 2 P. M. on that day the doors of the National Rifles Armory opened upon a three-days' exhibit of plants and cut flowers, the annual exhibit of the W. F. C. Both floors of the Armory showed a scene of great beauty.

On the first floor everywhere were immense palms, dracaenas, crotons, ferns, orchids, etc., while dozens of sweet-toned canaries mingled their notes with those of a seven-piece orchestra. One entire length of the room was given to the exhibits of the Agriculture Department and Botanical Gardens. A plant of Venus Flytrap and a group of single flowered chrysanthemums furnished by the latter attracted much attention. The Agriculture Department received special certificate for group of pompon chrysanthemums and special mention for group of decorative plants.

Among the most beautiful attractions on the floor were the three tables and mantels decorated by Blackistone, Cooke and Shaffer. The napery and silver were furnished by the courtesy of Chas. Rauscher, and the decorations were changed each day. These were not in competition. In addition, Blackistone showed an exquisite bride's shower bouquet of Bride roses and white bouvardia, also a beautiful autumn basket of single stem chrysanthemums in autumn shades, ribbon streamers and autumn leaves, the handle topped by an immense hornet's nest (nothing in it). Geo. Shaffer also showed two lovely shower bouquets, one for the bride, of lily of the valley and orchids, the other for the bridesmaid, of Bridesmaid roses. He also exhibited large vases of Eaton chrysanthemums and Richmond roses. Geo. Cooke showed a magnificent vase of American Beauty roses, banked by decorative plants. None of the above mentioned were in competition.

The table of new seedling roses was also a special centre of attraction. John Cook of Baltimore received 1st (no scoring) on 6 blooms of new rose never exhibited in this country before. For best 25 blooms not in commerce he scored 86 points. Robt. Scott & Son scored 81 points on Mrs. Jardine, and E. G. Hill & Co. 79 points on Princess. Peter Bisset also displayed several of his new seedling roses, including "Rosalie."

David Geillboetzer took 1st on 25 Bride, ditto Bridesmaid, ditto Golden Gate, also special prize on 100 Killarney. C. A. Shaffer & Co. 1st on 25 Richmond and 2d on Bride. A. B. Garden took 2nd prize on 25 Ivory. C. A. Shaffer & Co. also took 1st on 50 Enchantress carnations. John E. Haines 1st on 50 Imperial and 1st on 50 Pink Imperial. On violets, David Bisset took 1st on Farquhar, and Theo. Diedrich 2nd on Dorsett.

On the second floor the orchestra was ensconced behind the magnificent display by Mrs. Gardiner G. Hubbard, which occupied the entire stage. The

room at the head of the stairs was given up to F. H. Kramer's display of Queen Beatrice rose banked in maidenhair ferns. A handsome mirror was similarly decorated. Another corner was filled with chrysanthemum pot plants, while southern smilax was gracefully festooned around the entire room. A large Chinese pagoda occupied the entire centre of the main upper hall. This was the Gude exhibit; it was banked from floor to ceiling with large single stem chrysanthemums and maidenhair ferns, and lighted by two hundred electric lights. Thanks are due to Edw. Schmid for twenty-one handsomely caged canaries, which added greatly to the scenic effect. One was suspended from each post of the pagoda, and they gave abundant evidence of thoroughly enjoying the situation. Mrs. Gardiner Hubbard's display was magnificent. Towering palms, bananas and ficus furnished the background, while cut flowers and adiantum banked the front. Mrs. Hubbard, for whom Peter Bisset is gardener, took 1st on 25 Killarney roses, 1st on 25 Enchantress, 1st on 25 Lawson, Harlowarden, Rob't Craig, specimen palm, specimen decorative plant (*Alsophila Australis*), group of palms and special mention on collection of single chrysanthemums. Other handsome exhibits of decorative plants occupying the four corners of the exhibit space were furnished by Messrs. Freeman, Cooke, Blackistone and Shaffer. Facing the stage was Geo. Field's exhibit of orchids, said by a competent judge to be the best display ever offered to the Washington public. The beautiful exhibit of Mrs. Leiter, Sam'l Simmonds, gardener, included a fine display of Lorraine begonias, and Begonia Rex. She received first prize on these, and on collection of ferns.

There were large displays of show chrysanthemums from Nathan Smith & Son, E. G. Hill Company, and R. Vincent, Jr., & Sons of White Marsh, Md., the latter showing pompons, their specialty. Ley & Bickings showed *Adiantum hybridum* and chrysanthemums. Wm. Kleinheinz of Ogontz, Pa., sent twelve flowers of his new chrysanthemum, Lynwood Hall.

The out-of-town members of awards committee were F. C. Bauer, Chas. Siebold and Isaac Moss, all of Baltimore. On the local awards committee were Geo. Field, chairman; Jos. Freeman, Jr., Wm. Clarke, Chas. McCauley and John Robertson.

There was a special meeting of the club on Saturday night, Nov. 16th, to wind up unfinished show business. A suggestion from a member that another exhibit be given in the fall of 1908 was enthusiastically received.

ST. LOUIS FLOWER SHOW.

The St. Louis flower show opened last Tuesday noon. This exhibition was given by the St. Louis Horticultural Society and their efforts were crowned with success as far as the exhibition was concerned. The hall in which the show was held is spacious and fine, but the location unfavorable for a large attendance.

The entries in all classes were extensive and really fine. The made-up work in mantels, tables, baskets and special designs attracted a great deal of attention; also the grand display of cut blooms in carnations, roses and chrysanthemums. The management deserves great credit for the manner of arranging the hall for the displays.

The society entertained all the visiting florists at a banquet on Wednesday night at the hall, and on the same evening the ladies of the society entertained the visiting ladies with a theatre party. Then on Thursday afternoon the St. Louis Florists' Club entertained all the visitors with a Dutch lunch in their meeting hall. So the first fall flower show of the society will go down as a great social success. The weather was exceedingly fine throughout the week, clear and cold.

The judges placed the prizes for the first day as follows:

Cut chrysanthemums: Forty-eight blooms, eight varieties, six blooms in each vase. 1st, E. G. Hill Co.; 2d, H. W. Buckbee; 3d, Poehlmann Bros. Co. Fifty blooms arranged for effect. 1st, H. W. Buckbee with Guy Hamilton; 2d, Poehlmann Bros. Co. with Yellow Eaton; 3d, Himmer Bros. with Major Bonaffon.

Carnations: One hundred blooms of any variety. 1st, E. G. Hill Co. with Afterglow; 2d, Poehlmann Bros. Co. with Perfection; 3d, Chicago Carnation Co. with Aristocrat. Ten vases, ten varieties, twenty-five blooms in each vase. 1st, Chicago Carnation Co. with Winsor, Enchantress, Aristocrat, Daybreak Lawson, White Perfection, Red Chief, Rose Pink Enchantress, Beacon, Welcome and White Enchantress; 2d, H. W. Buckbee; 3d, Poehlmann Bros. Co.

Roses: Six vases, six varieties, twenty-five blooms in each vase, American Beauty excluded. Poehlmann Bros., 1st; Peter Reinberg, 2d. Fifty American Beauties; Poehlmann Bros., 1st; Peter Reinberg, 2d; F. H. Weber, 3d.

Henry Shaw premiums for decorative plants. Palms, etc., Wm. Schray & Sons, 1st; Sanders' Nursery, 2d; C. Young & Sons Co., 3d. Begonias, J. A. Peterson 1st, Bentzen Floral Co. 2d. Berried Plants, Koenig Floral Co. 1st, Vaughan's Seed Store 2d, Wm. Schray & Sons 3d. Cacti, A. G. Greiner 1st. Twenty-five blooming plants, eight or more varieties, chrysanthemums excluded, Wm. Schray & Son 1st, Bentzen Floral Co. 2d. Geraniums in bloom, Wm. Brucker 1st, Koenig Floral Co. 2d, Bentzen Floral Co. 3d. Specimen palm, fern or decorative plant, Sanders' Nursery 1st, Koenig Floral Co. 2d, C. Young & Sons Co. 3d. Blooming plants, chrysanthemums excluded, J. A. Peterson 1st, Koenig Floral Co. 2d. Group of variegated foliage plants, Wm. Schray & Sons 1st, Sanders' Nursery 2d.

Group of chrysanthemum plants occupying 50 square feet. Koenig Floral Co. 1st, Wm. Brucker 2d, Sanders' Nursery 3d.

Chrysanthemum plants grown to single stem and flower. Vaughan's Seed

Store 1st, C. Young & Sons Co. 2nd. Messrs. Vaughan, Sanders, Koenig and Buckbee were variously awarded the premiums in the remaining chrysanthemum plant classes.

The Henry Shaw medal went to W. A. Manda for *Dracaena Mandaiana*, the S. A. F. medal went to the E. G. Hill Co. for rose *Rhea Reid*.

The Second Day's Awards.

Cut chrysanthemums. Twenty-five white, one variety, E. G. Hill Co., 1st, with T. Eaton, Poehlmann Bros., 2d, T. Eaton, H. W. Buckbee, 3d, Mrs. Jerome Jones. Yellow, E. G. Hill Co. 1st, with Yellow Eaton, Nathan Smith & Sons 2d, and H. W. Buckbee 3d, both Col. Appleton. Twenty-five pink, H. W. Buckbee 1st, with Dr. Enguehard, E. G. Hill Co. 2d, A. J. Balfour. Twenty-five any other color, E. G. Hill Co. 1st, with Amateur Conseil, N. Smith & Sons 2d, with T. Carrington, H. W. Buckbee 3d, with W. R. Church. Fifty not less than 20 varieties, moss banks, E. G. Hill Co. 1st, H. W. Buckbee, 2d, N. Smith & Sons 3d. Pompons, E. G. Hill Co. 1st, Koenig Floral Co. 2d.

Carnations. Fifty white, Poehlmann Bros. 1st, with White Perfection, E. G. Hill Co. 2d, with White Enchantress. Fifty light pink, H. W. Buckbee 1st, Enchantress, E. G. Hill 2d, and Poehlmann Bros. 3d, both with Rose Pink Enchantress. Fifty dark pink, E. G. Hill Co. 1st, Afterglow, Chicago Carnation Co. 2d, Aristocrat, H. W. Buckbee 3d, Mrs. T. W. Lawson. Fifty red, Poehlmann Bros. 1st, with Beacon, H. W. Buckbee 2d, Red Lawson. Fifty variegated, Peter Weiland 1st, with Mrs. M. A. Patten.

Cut Roses. One hundred Richmond arranged for effect, F. C. Weber 1st, Poehlmann Bros. 2d, F. H. Weber 3d.

Handle Basket. F. C. Weber 1st, made with good effect of Chateau roses, C. Young & Sons Co. 2d, made of Killarney roses, Theo Miller 3d, with Bride roses.

The table decorations were all of extra quality of cut stock, all yellow chrysanthemums and were hard to judge. The judges finally decided on F. C. Weber 1st, F. H. Weber 2d, C. C. Sanders 3d. These were the great attraction and the visiting ladies surrounded them the entire day.

Bassett & Washburn exhibited their fine new red carnation, Orland P. Bassett.

Third Day Awards.

Cut roses. Fifty Richmond, Peter Reinberg 1st. Fifty Brides, Weiland & Olinger 1st, Peter Reinberg 2d. Fifty Bridesmaids the same. Fifty any other variety, American Beauty excluded. P. Reinberg 1st, with Mrs. Marshall Field, Weiland & Olinger 2d, with Chateau. Fifty American Beauty arranged for effect, accessories admissible, F. C. Weber 1st, F. H. Meinhardt 2d. Violets, C. Young & Sons Co. 1st, F. C. Weber 2d. Bridal bouquets, Fred C. Weber 1st Young's 2d.

On Friday, the last day, no prizes were offered and previous exhibits held over. Special exhibits on Friday were carnation Sarah A. Hill, Lawson and Enchantress by B. K. & B. Floral Co., Afterglow and Snowdrift by R. Witterstaetter, American Beauty, Bride, Killarney and the sensational new rose, W. R. Smith, by Heller Bros.

The judges were Phil. J. Hauswirth, W. W. Coles and Andrew Meyer, Sr.

SOCIETY OF INDIANA FLORISTS.

The annual state competitive exhibition under the auspices of the Society of Indiana Florists, was held Nov. 13 and 14 at A. Wiegand & Sons' Conservatories. The many entries from all parts of the state, as well as the adjoining states, brought out many new varieties in chrysanthemums, roses and carnations. Awards were pretty evenly divided between the concerns mentioned under the respective classes: Chrysanthemums.—E. G. Hill & Co., Baur & Smith, W. A. Bitler, P. O. Tauer, B. K. & B. Floral Co., Vaughan's Seed Store, Weiland & Olinger, Stewart & Haugh, and C. H. Totty. Roses.—Heller Bros., Weiland & Olinger, E. G. Hill & Co., and Smith and Young. Carnations.—B. K. & B. Floral Co., Baur & Smith, R. Witterstaetter, Stewart & Haugh, E. G. Hill & Co. Violets.—Smith & Young, A. Wiegand & Sons. Plants.—

judge of all plants and cut chrysanthemums, S. A. Anderson, Buffalo, of carnations, and C. Tidy, Toronto, of roses, violets and design work.

A special feature of the design work was a standing wreath of dark oak leaves and *Cattleya labiata* and *Harrisonii*, with a square base of oak leaves, ferns, lily of the valley and cypripediums, the whole forming a most exquisite combination of color, which was deservedly awarded first prize. The design put up by F. Brown, manager of the Dunlop store, was very fine, also the presentation basket of chrysanthemums by Mr. Brown.

A new pink seedling chrysanthemum exhibited by the Steele-Briggs Seed Co. scored 91 points. George Hollis also exhibited a vase of nice seedling chrysanthemums of commercial promise. Vaughan's Seed Store sent a chrysanthemum plant grafted to 25 varieties.



VIEW OF EXHIBITION, SOCIETY OF INDIANA FLORISTS

Begonia Gloire de Lorraine, J. A. Peterson, A. Wiegand & Sons. Cyclamen and pot chrysanthemums.—A. Wiegand & Sons.

Certificate of merit was awarded to E. G. Hill & Co., for new rose *Rhea Reid*.

Display tables of roses in variety and orchids were shown by A. Wiegand & Sons, not for competition.

ONTARIO HORTICULTURAL EXHIBITION.

The Ontario Horticultural Exhibition held in Massey Hall, Toronto, last week was, as a whole, well up to the standard, especially so in the orchid groups of Thos. Manton and the Dale Estate of Brampton, as well as all the chrysanthemums exhibited by the Dale Estate and T. McHugh of Montreal. The chrysanthemum groups were about as usual, and pot plants a little better. Lorraine begonias were very fine.

A splendid exhibit of cut chrysanthemums arrived from Nathan Smith & Son, Adrian, Mich., just 24 hours too late for competition, as the judge had completed his work. W. Wilshire was

The carnation classes were well filled and the competition keen between the Dale Estate, R. Jennings, Toronto Floral Co. and W. Houston. On roses the Dale Estate, Bedford Park Floral Co. and Toronto Floral Co. made things lively for one another. On the various floral designs, baskets, bouquets, etc., J. H. Dunlop, T. Manton and S. A. Frost were the principal competitors.

MONTREAL GARDENERS' AND FLORISTS' CLUB.

The 16th annual chrysanthemum show of the Montreal Gardeners and Florists received only a very limited number of visitors, but the trade was well represented in the exhibits. The display, while not large, was up to the standard of other shows as far as the quality went, but it was a pity to find the gardeners and florists lukewarm and uninterested in their own chrysanthemum show.

The band of the Victoria Rifles played a fine program of classical and popular music, adding greatly to the attractiveness of the affair.

Messrs. A. Pinoteau Park Lafor-

taine, W. G. Pascoe gardener to Mr. R. Kelord, J. C. Eddy gardener to Mr. A. Haig Sims, Hall & Robinson, Oudermont, J. Pidduck, Mt. Royal Park, F. C. Smith gardener to Sir Wm. Van Horne, Wilshire Bros. and C. A. Smith gardener to T. O. Dawes, were the winners in the various plant competitions. On cut blooms of chrysanthemums, Messrs. W. G. Pascoe, W. G. Pewters, gardener to M. Hugh A. Allen, J. C. Eddy, Hall & Robinson, E. J. Hayward gardener to Mr. J. Bresky, C. A. Smith and J. Bennett were the leaders. Hall & Robinson won three firsts on roses, and all the carnation prizes. Wilshire Bros. cleaned up about everything in the floral design department and fern pans. There were some good fruit and vegetables from J. Petty gardener at Royal Victoria Hospital and C. A. Smith, Lorraine begonias from F. C. Smith and trade exhibits from P. McKenna & Son.

WORCESTER COUNTY HORTICULTURAL SOCIETY.

The Worcester County Horticultural Society's annual chrysanthemum show was held on November 14 at Worcester, Mass. It was an excellent display and well attended.

A large collection of palms in the center of the hall was exhibited by H. F. A. Lange, who also showed a corner table of decorative plants, a collection of choice roses, a table of Glorie de Lorraine begonias, ferns, etc. Charles D. Mackie had a very good display of chrysanthemums, ferns and palms for exhibition only.

Fred B. Madaus covered the platform with palms, and a fine display of carnations was made by H. A. Cook of Shrewsbury. Mrs. J. C. Whittin, George W. Knowlton and Leonard Midgley each showed chrysanthemums. One corner table contained a collection of decorative plants by E. W. Breed, another of roses and carnations by Leonard C. Midgley.

Of the single varieties good displays were made by H. F. A. Lange, M. J. Whittall, E. W. Breed and L. C. Midgley.

COLUMBUS (O.) FLORISTS' CLUB.

The Florists' Club held their annual chrysanthemum show on Nov. 12th. The exhibits were very fine, in fact the best that were ever seen in Columbus and competition was very keen.

Winners in the classes for cut blooms were as follows: C. P. Torrey 1st, Munk Floral Co., 2d, and Fifth Ave. Floral Co., 3d on 6 blooms, 6 varieties, C. P. Torrey 1st, J. H. Williams 2d on 3 blooms, 3 varieties. Sherman Stephens 1st, Williams 2d on 6 blooms 6 varieties, commercial. Munk Floral Co. won 1st on 3 blooms, 3 varieties, 9 blooms, 3 varieties, Torrey special for 6 blooms and Fifth Ave. Floral special for 12 blooms. Other winners were E. Metzmaier and Fifth Ave. Floral Co. Franklin Park exhibited two fine vases of cut blooms, not entered for competition.

The show this year was far ahead of expectations and shows what can be done. No doubt, next year the time will be ripe here for a big show and there is no reason why we can not have it.

The judges were Fred Windmiller, A. Hills and Fred Hohenstine.

THE CHICAGO SHOW.

Notes by Uncle John.

Of new plants, there were but few; there must be some worth showing. *Ficus pandurata* is so large and so good that it fiddles for itself—and it's welcome. *Dracaena Mandaiana* is the best red *dracaena* I have yet seen (and from *ferrea* to *stricta* and *terminalis* to *Youngii* I know something). *Phoenix Roebelinii* has passed beyond the new plant stage, but it is a plant of so much merit that more attention should be called to it.

The many available species of ferns not generally known would make a good and profitable display at any exhibition. They necessarily need not be commercial kinds. Gentlemen and their gardeners are looking for collections of ferns and other groups. Plant dealers O. K. this and take notice.

Of the newest and best things the roses were in the lead for the first time. This needs qualification—it's difficult to place them. Many said Mrs. Marshall Field, Mrs. Potter Palmer and Mrs. Jardine were the best three; then the glorious Cardinal and Rhea Reid, and the Princess and Hills No. 83—a lovely pure carmine rose—the upper and lower surfaces of the petals being of the same shade which is unusual even in yellow and white shades. I predict this will be seen in the first rank. The Hill Co. have never yet shown the capabilities of their seedlings before letting them out. Princess is a fine addition; Rhea Reid improves; the Cardinal is beautiful and will stay. Mrs. Jardine is entirely distinct; it neither fades nor changes; it is an everlasting keeper and its perfume is like the old damask.

Mrs. Potter Palmer is a valuable addition to that class of roses which are so necessary where quantity is required. It will be seen much better later on—and will become popular. Mrs. Marshall Field has improved greatly and is one of the most sparkling and beautiful new roses—its distinctness is unique.

Of new carnations, in quantity very short, in quality never better. Raisers of seedlings are getting wise. "It's not how many, but how few." Let this prevail because the few have the best chance.

Two glorious scarlets—Orland P. Bassett and Rudd's Defiance—are beyond question of the greatest merit. The "pros and cons" for these two would fill a page of HORTICULTURE.

Afterglow will hew out a place equal to Aristocrat, and it's a keeper. Sarah Hill is a splendid white and I trust it will be worthy of the name it bears. Sincerity is sure to be a popular white and may displace some of the very foremost ones.

The "Cabalistic Class"—those under number—contained some that surely will be named. Among carnations, Rudd's 23-10-3A, is a magnificent large flower, perfectly formed; the color is that of a salmon steak lined with hair-like currant-red lines; a glow pervades this like a November sunset.

Dorner had two good ones not yet named—one a splendid crimson—and Rudd had another without name, which won the sweepstakes and it's time it had a good name.

Of chrysanthemums, never so few—nearly all good. E. G. Hill Co. and Dorner, Nathan Smith & Sons and

Poehlmann were exhibitors. There were several good ones—better than ordinary; the following are the best, however: Hill's John Lemon, a magnificent deeply built flower of crimson and gold, the crimson brightest and the gold the purest, won the sweepstakes for the best. Hill's "best six white," Leon Truelle, were A1, as were also Dorner's "best six yellow," 24-03, and Smith's "best six darker than Bonnaffon," 95-3-06. These cabalistic signs are mysterious. If any flower is good enough to win a prize it's good enough to have a name or we shall have to study Arabic. Some others were fair but they never looked behind 'em.

JOHN THORPE.

SOUTHERN CALIFORNIA HORTICULTURAL ASSOCIATION.

The fifth semi-annual exhibit of the Southern California Horticultural Society opened in Blanchard Hall, Los Angeles, Thursday evening, November 7, at 7.30 o'clock and continued until 10.30 P. M., Saturday. This was considered the best and most successful autumn show ever held in southern California. The placing of the prizes was a difficult task as many of the exhibitors refused to accept any awards, claiming they had not entered in competition but simply wished to assist in making the show a success.

The first prizes in chrysanthemums were divided between B. Whitehead of Pasadena and Dr. W. Jarvis Barlow of Los Angeles. The first prize for twelve blooms, yellow, was awarded to Mr. Whitehead for a remarkable collection. All others in the class, red, white, pink, bronze and assorted colors went to Dr. Barlow. The first prize for chrysanthemum novelties 1906-7 was awarded to Dr. Barlow. All Dr. Barlow's entries were grown by W. W. Felgate, head gardener.

Awards of merit for specimen plants and single blooms from specimen plants, were awarded to Howard & Smith. Though not grown for exhibition purposes these were exceptionally good.

The Whittlesay Floral Co. carried off first prizes for carnations in several classes, as did also The Ocean-side Floral Co. The first prize for carnation novelties was awarded to Louis G. Horner. An unnamed white variety was the star of the collection and was one of the most notable blooms in the entire show.

Miss Sara C. Reese was awarded first prize for a collection of roses. The California Rose Co. won first awards in thirteen classes of roses. Honorable mention for novelty roses was awarded Howard & Smith.

First prize for best display of dahlias was awarded to Miss Reese. First prize was awarded to C. B. Boothe for collection of chrysanthemums and honorable mention for ornamental palms to Howard & Smith. First for collection of ornamental plants in same class was awarded to E. H. Rust. Howard & Smith received the award for best collection of flowering plants.

Mr. Coclidge's collection of tropical plants created much interest among local fruit growers as some plants were new and proved to be of great commercial value.

The first prize for the best plant

novelty was awarded to J. Dietrich for *Alocasia Standnerifolia*; second prize to D. W. Coolidge for *Ficus pandurata*. A special award of merit in the novelty class was made to Miss Sara Reese for a collection of Burbank's Lemon ball marigold. The aquatic exhibitions of E. D. Sturtevant and W. Hertrich, though not for competition, were noteworthy. P. D. Barnhard had a very interesting botanical exhibit which caused much comment and was one of the prime attractions.

LAKE GENEVA GARDENERS' AND FOREMEN'S ASSOCIATION.

The Lake Geneva Gardeners' and Foremen's Association held their third annual exhibition Friday and Saturday, Nov. 15th and 16th. This show far surpassed either of the previous exhibitions in point of beauty and management, as well as quality of blooms and plants shown. Another feature of this year's show was the large exhibitions of vegetables. A. J. Smith and H. W. Illenberger were managers of the show. Emil Buettner was judge.

Among the winners of awards were: J. J. Mitchell, gardener A. J. Smith; George Sturges, gardener Wm. Wahlstedt, R. T. Crane, gardener Axel Johnson; Kellogg Fairbanks, gardener Ed. Sandgren; C. L. Hutchinson, gardener Wm. G. Longland; N. W. Harris, Nathan Dickenson in the chrysanthemum, carnation and violet classes; Mrs. R. N. Isham, gardener Robert Sampson, E. L. Jones, M. A. Ryerson, gardener Miles Barratt, Mrs. McCrea, C. C. Bayles were prominent in the vegetable classes. Poehlmann Bros. showed some grand roses including their new Mrs. Potter Palmer and Julius Roehrs Co., were represented by a fine display of orchids.

After the close of the show Saturday evening, the members of the association entertained the visitors at a banquet of the old-fashioned fraternal type.

RHODE ISLAND HORTICULTURAL SOCIETY.

The annual fall exhibition of this society was held in the Churchill House, Providence, on Nov. 14 and 15. The show was under the management of William Appleton and was said to be the best fall display ever made by the society. Seth A. Borden of Fall River was an extensive exhibitor of chrysanthemums, orchids, carnations and violets; John Macrae of chrysanthemums and carnations; William Hill, decorative plants; J. H. Cushing, Quiddick, a large line of carnations, T. T. Dodge, Howard, violets; F. Macrae & Son, roses; E. E. King, Attleboro, carnations in variety; Charles Faust, Cranston, chrysanthemums; Albert Holscher, Johnston, Princess violets; John Gerrard, Bristol, violets and carnations; L. A. Bloomer, Pawtucket, chrysanthemums; William Appleton, large collection of palms and ferns, extending the length of the south side of the hall; N. D. Pierce, Norwood, a variety of plants; F. A. Luther, an extensive group of ferns; L. R. Peck of West Barrington, orchid blooms, and there were many fine fruit exhibits. A. A. Hixon of Worcester, Mass., was judge.

NATIONAL CHRYSANTHEMUM SOCIETY OF ENGLAND.

Grand Autumn Exhibition.

Favored by a fine day for the opening and also with a large number of visitors, the grand autumn show of this old established society opened on the 6th of November under the most auspicious circumstances. In every way the organizing committee must have felt great encouragement, for the variety, quality and number of the exhibits were decidedly far in advance of the past year or two. As we wandered around the show many and frequent were the expressions of high appreciation that we heard fall from the lips of visitors, and indeed they were well justified.

The huge massive trade and other miscellaneous exhibits must claim our first attention, and in this section of a peculiarly high order of merit was the vast floral artistic composition set up with great skill and remarkable aesthetic effect by H. J. Jones, who deservedly received a large gold medal for his wonderful display. It consisted of an immense circular group 95 feet in circumference, arranged on a green cloth floor covering with a dark green silk edging crumpled in wavy, irregular folds. The flowers, many of them gigantic cut blooms of the finest Japanese varieties, were set up in tall bamboo stands, in large Japanese porcelain vases, while those in front were arranged in small vases a few inches to a foot in height. Autumn foliage, palms, and many varieties of decorative chrysanthemums were interspersed throughout the group at intervals, and the whole arrangement formed an object lesson in the art of floral decoration worthy of imitation.

Norman Davis also had a large gold medal for a fine group which, if smaller in area, was at least equally interesting as an artistic composition. In large bamboo stands, each holding a great number of monster Japanese in vases and baskets similarly furnished, we noted some grand flowers, mostly novelties of recent introduction, which we may probably describe at a later date.

A gold medal was awarded to J. Peed and Sons for a very prettily arranged circular group edged with *Isolepis gracilis*. Ornamental foliage plants, ferns and smilax were well mingled with the chrysanthemums, which were of a high order of merit. Decoratives and singles were used for the purpose of lightening the effect of the bolder and more massive Japs.

William Wells & Co. staged a collection on a long table, and here, too, singles and ornamental foliage plants were freely and judiciously used. A silver gilt medal was awarded for this group. Phillip Ladds had a fine decorative mixed group edged with small ferns in pots and a border of small pelargoniums, palms, heaths, aspidistras and other subjects making a most effective display, for which he also received a gold medal. J. W. Cole showed another decorative group, mostly of *Calvat*'s novelties for 1937, some of which are evidently suitable to our less favored climate.

Hobbies Limited had a show of their own in three main divisions, and a gold medal was deservedly awarded for it. One side portion was formed en-

tirely of roses most daintily arranged and greatly admired by numerous lady visitors. The chrysanthemums which formed the middle section of the group were mostly singles. On the extreme left were dahlias in grand form and mostly of the giant decorative sorts. A lovely exhibit came from T. S. Ware & Co., consisting of decorative dahlias in the rear with fine bunches of carnations in front. Henry Cannell & Son had also a good miscellaneous group. Zonal pelargoniums were in the highest possible form and among the chrysanthemums we noted the grand new *Incurved Romance*, several of *Calvat*'s new seedlings, etc., the whole group, which was ornamented with autumn foliage, etc., receiving a large gold medal. Some fine singles were also noted in this exhibit. W. J. Godfrey had a very large table exhibit of chrysanthemums, and a gold medal was awarded to his lot. Big blooms and new singles were the leading features here. Another trade exhibit of carnations was staged by J. Peed & Sons.

In the great competitive classes there were some noble exhibits both in vases and on the old show boards. Competition was keen in most cases, and the 48 Japanese and the 36 *Incurved* were well filled. So, too, were the various vase classes. Quality in each division was a leading feature, and we noticed in the Japanese classes generally and the *Incurved* section some grand flowers.

The anemone flowered varieties although not shown in any great numbers were well represented, and in these days of great size it is interesting to see them when nicely developed and the centers well filled. There is in this section nothing very new or novel, most of the leading show sorts being of old introduction. Market varieties were also provided for. There was an interesting class for 18 Japanese novelties. Two well-known English raisers, viz., Norman Davis and George Mileham, competed with neatly set up stands.

William Dane showed a nice little lot of conifers and hardy shrubs. John Laing & Sons staged a fine group of foliage plants on a table. W. Sandford & Co. had another table of single chrysanthemums in vases.

The Floral Committee held a meeting. The varieties, George Mileham and *Romance* both received first class certificates. The same award was made to Freda Bedford, a decorative market variety, and to the following singles: E. Nottell, Crown Jewel Improved, Elsie Matthews, C. Robfant; also to Felton's Favorite, a market decorative.

Vegetables were also shown, and there were many dinner table decorations, vases, bouquets, and other floral compositions where artistic talent is required. Most of these were much admired by the visitors. Some very choice tables of fruit were staged by several exhibitors. The British Columbia Government also staged fruit packed in boxes and baskets.

C. HARMAN PAYNE.

Porter Bros., vegetable forcers, of Danversport, Mass., have lost a large crop of cucumbers through having painted the heating pipes in two of their greenhouses.

DREER'S DAHLIAS

WE have just harvested an immense crop of Dahlias of all types, in all the leading standard, and many new varieties, the roots are strong and heavy and will be supplied in un-divided field grown stock. If you have not yet made up your catalogue list, or are short of any varieties which you have listed, consult us, and we shall be pleased to quote interesting prices on stock that is absolutely true to name.

We also call special attention to our immense stock of Hardy Phlox, we have over a quarter million one year old field grown plants in stock, which we can supply at prices lower than y u can grow them for.

We have also a complete line of Hardy Perennials in excellent condition and at correct prices; send us a list of your requirements.

HENRY A. DREER

714 Chestnut St., PHILADELPHIA.

DAHLIA-ROOTS

We have about 200,000 clumps in A No. 1 condition; our collection contains 200 of the best varieties. We offer for fall or spring delivery whole field clumps at prices ranging from \$5.00 per 100 for good standard sorts up to \$25.00 per 100 for some of the newer sorts. Send for list. If you buy in large quantities write us with list and we will make you special prices for immediate acceptance, and hold for future shipment, if desired.

R. Vincent, Jr. & Sons Co
WHITE MARSH, MD.

100,000 DAHLIAS

Premium Stock, guaranteed true to name. 500,000 large Flowering Gladioli, hundreds of colors and variations mixed. Wholesale prices on application. Order now for spring delivery. Catalogue free.

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DAHLIAS

A long list of varieties true to name. Write for prices.

A. B. DAVIS & SON, INC.
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DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; prompt delivery.

DAVID HERBERT & SON,
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CARNATIONS.

Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

Bonnie Maid—Clear pink edged white.—\$12.00 per 100; 100.00 per 1000. Large well formed bloom. Very early and productive.

F. DORNER & SONS CO.
La Fayette, Ind.

CHRYSANTHEMUM : : NOVELTIES : :

I will offer for 1908 among others the following importations:

WHITE: W. M. Moir, the Lord & Burnham gold medal winner; Mrs. Norman Davis, Harold Wells, Mrs. H. B. Haggard.

YELLOW: Mary Donnellan, Mrs. J. C. Neil, Dorothy Goldsmith, W. Luxford.

PINK and other colors: O. H. Broomhead, Mary Mason, Mrs. W. Wells, Kitty Lawrence and others.

Also several fine American Seedlings, both large flowered and singles. I will catalogue this year over 100 varieties of singles. My list will be ready November 30. Send for it

CHARLES H. TOTTY, MADISON, N. J.

20,000 STOCK 'MUM PLANTS

We must have the bench room, and to move instantly before Dec. 10, will offer following extra strong stock at \$2.00 per 100; \$17.50 per M. Any 500 at M rate.

Clementine Touset, Jeanne Nonin, Alice Byron Monrovia, Appleton, October Frost, Polly Rose, Rosiere, Beatrice May, Mary Lann, Robinson, R. Halliday, Opah, Bonnafion, White Bonnafion, F. F. Plant, Dr. Enguehard, Eaton, Yellow Eaton, Chadwick, Golden Chadwick, Wm. Duckham, Mrs. Wm. Duckham, Mrs. Geo. Heaume, Ivory, Golden Wedding, Mrs. Coombs, Lady Harriet.

NOVELTIES THIS YEAR

Director Gerard, Loubet, Money Maker, Clay Frick, Miriam Hankey, Alice Roosevelt, Winter Cheer, Mme. Chabanne, Cochet, Pechou, Golden Dome, Detroit, Mary Godfrey, Mme. Rosette, etc. each, \$1 per doz., \$6 per any 100.

Cash Please.

HARLOWARDEN GREENHOUSES
Greenport, N. Y.

JOHN E. HAINES Bethlehem, Pa.

is the place to order rooted-cuttings of the following varieties for 1908.

John E. Haines, red	} Per 100 Per 1000	
Imperial variegated		
Pink Imperial, Pink Enchantress, Light Pink		
		\$6.00 \$50.00

Place your orders early for Dec. delivery.

CHRYSANTHEMUM STOCK PLANTS

10c. each, \$1.00 per doz., \$6.00 per 100

WHITE—Early: George S. Kalb, Polly Rose Willowbrook, Early Snow, October Frost. Mid-Season: Miss Minnie Wanamaker, Ivory, Mrs. Robinson, Niveus, Queen, Miss Alice Byron, Eureka, Beatrice May, Merza. Late: Mrs. McArthur, Timothy Eaton, W. H. Chadwick, Adelia, Mrs. Swinburne. **PINK**—Early: Glory of the Pacific, Rosier. Mid-Season: Adela, J. K. Shaw, Pink Ivory, William H. Duckham, Dr. Enguehard, Morton F. Plant, The Harriott, Marie Liger, Lavender Queen. Late: Maud Dean, Mrs. James Marshall, Mayor Weaver, The Harriott. **YELLOW**—Early: Monrovia. Mid-Season: Miss Georgiana Pitcher, Col. D. Appleton, Mrs. George Beech. Late: Major Bonnafion, H. W. Riemann, Yellow Eaton, Old Gold, Golden Wedding.

RED—Cuttingfordii, Matchless, Persham Red **BRONZE**—Miss Kate Broomhead, Mrs. William Duckham.

POLIPONS—Baby (Yellow), Lulu (White). **NOVELTIES**—20c. each, \$2.00 per doz., \$15.00 per 100. Mrs. Clay Frick, mid-season, White; Golden Dome, late, Yellow.

A. N. PIERSON, Cromwell, Conn.

CHRYSANTHEMUM STOCK PLANTS FROM BENCH

Timothy Eaton, Rosiere, C. Touset, Maud Dean, Robt. Hall day, Alice Byron, White and Yellow Bonnafion, Mary Lann, Yellow Jones, \$1.00 per dozen, \$6.00 per 100. Mrs. George S. Kalb, Ivory, Estelle, Glory of the Pacific and Cremo, \$1.00 per dozen; \$5.00 per 100. Cash with Order.

William Swayne, Box 226 Kennett Square, Pa.

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Thorburn's Bulbs

ROMAN HYACINTHS at reduced price to close out.

PER 1000 SEEDS

 Asparagus plumosus nanus seeds \$2.25
 Asparagus plumosus robustus seeds 2.50

BERMUDA EASTER LILIES

Bulbs of all kinds, native and foreign.
 Send for our Trade Bulb List
J. M. THORBURN & CO.
 33 Barclay St., through to 38 Park Place
NEW YORK

Everything of the Highest Grade

We have a surplus of

Narcissus VON SION 1st SIZE

Write for Prices

BRIDGEMAN'S SEED WAREHOUSE
RICKARDS BROS., Props.
 37 East 19th St., NEW YORK


BULBS

for immediate planting or forcing.

Let us quote on whatever you need.

H. E. FISKE SEED CO.
 12 & 13 Faneuil Hall Square,
BOSTON, MASS.

GLADIOLI

 Cut spikes in any quantity from
 Selected White and Light Shades;
 Selected Mixed Colors and Named
 Varieties of Exceptional Beauty.

Write for Prices

ARTHUR COWEE

Gladioli Specialist

Meadowvale Farm, BERLIN, N. Y.

GLADIOLI

 Spotted Calla, Madeira Vine,
 Cinnamon Vine, Oxalis Four Varieties,
 Hyacinthus Candicans,
 Lilies in Variety, German Iris,
 Var. Day Lily,
 Delphinium Formosum

Send for price list of Bulbs and Hardy Plants

E. S. MILLER, - Wading River, N. Y.
 BETWEEN YOU AND ME, What
 do you think of the Buyers' Directory
 and Ready Reference Guide of HORTI-
 CULTURE? I always look it over be-
 fore I do any buying

Seed Trade

It was told in last week's issue that the fire at the government seed warehouse at Washington had made a clean sweep of everything in the building, and particular attention was directed to the item of sugar corn of which about 2500 bushels were supposed to have been destroyed. It develops, however, that with the exception of about twenty bushels all was saved, but in a condition that augurs ill for its being available for seed. Much of it is wet and instead of being spread out, it is left in the bags with the expectation that it will dry in that way, which of course shows what practical seedsmen are our genial "Professors" who run things at the government seed shop. Much trouble has been encountered in securing a building fully available in which to continue the interrupted distribution when a fresh lot of seeds are at hand, and as a ready-made building could not be found to satisfy all requirements a new temporary frame structure is being erected, within the grounds of the department, and to make room for which, a fine old hedge was removed. It was begun only last week, but an optimistic "Professor" confidently expects to begin putting the seed into packets in the new building by Dec. 1st. Here is another beautiful illustration of the simple and childlike faith of our government seedsmen. Up to Saturday of the past week no orders for any considerable quantity of seeds had been given, and while there seems to be an honest effort to dispense with as much unnecessary red tape as possible in this emergency, it will be the middle of the present week before final action will be taken on the various bids and if the goods are rushed off without an hour's needless delay after the orders are received, it will be from ten days to two weeks before they will reach Washington.

It is of course quite generally known that Mr. B. F. Brown did not secure the contract for putting up the seeds for the coming distribution, and that his machines are not in use by the present contractor. A smaller machine which only fills the packet, but does not paste the end, has been used. Each of these machines is said to be capable of filling 28,000 packets in 8 hours, which constitutes a day's work in all departments under government control and keeps five to six girls busy pasting. Several of these machines were destroyed and not enough are available to make more than a respectable beginning. It will require time to complete them, however, and it really looks as if it might be the middle of December or first of January before everything will again be in full swing.

Advices just to hand by mail from California confirm reports of serious damage to the lima bean crop. This letter, which comes from Carpinteria, says that rain commenced falling October 16th and up to Nov. 1st nearly six inches had fallen. The beans were turned every day in the effort to keep from spoiling, but in spite of this were badly damaged, a good percent-

age being swollen, and no inconsiderable quantity having sprouted. Those beans that had been threshed were sacked and piled up in the fields, and of course were soaked. It is estimated that from 40 to 60 per cent. of the crop was still in the field Nov. 1st, either in sacks or not yet threshed. Of course this means that lima beans will now take their place in line with peas and corn. Just what percentage will be unmarketable, cannot now be stated, but that it will be considerable is certain, and it behooves every jobber to go slow in selling lima beans until his stock is actually in store, and has been examined. Samples will no doubt be unsatisfactory in many instances, but seedsmen should be reasonable, and understand that conditions are such as to make it impossible to supply samples up to the usual standard.

A letter from one of the largest growers of sugar corn in the country, under date of Nov. 5th, says that in 1904-5 when corn sold up to \$15.00 per bu., it was 60 per cent. drier on Nov. 1st than it was this year. Since Oct. 1st it had not dried out a particle, but in effect had been in practical cold storage. Here is the key to the real situation, but no use repeating old arguments which ought to be self-evident truths.

There are rumors of some changes in the firm of D. M. Ferry & Co., but these are likely to be more in matters of detail than in business policy, as for many years Mr. Ferry has given very little attention to the seed business, although no seedman's name was more widely known in this or any other country and few men were better loved or fully trusted by their business associates. His loss is most sincerely mourned by those who knew him best.

The wholesale price list of grass and clover seeds just issued by Henry Nungesser & Co., New York, indicates that all grass and clover seeds are higher than usual this season and really high grade qualities on most lines are scarce.

CATALOGUES RECEIVED.

Archias Seed Store Corporation, Sedalia, Mo.—Garden, Farm and Poultry Annual. Cover, flowers and vegetables, in colors.

M. G. Madson Seed Co., Manitowoc, Wis.—General catalogue of vegetables, fruits and flowers. Cover in colors, reproducing a painting of child with morning glories.

ST. DAVIDS Late-Dug Harrisii

Guaranteed pure bulbs. No long-
 iflorum adulteration
 SIZE 5 to 7, 400 in a Case. \$15 00 Case

Wm. Elliott & Sons
 201 Fulton Street
NEW YORK

WE are in possession of two late consignments of Hardy dwarf roses with heavy canes; Rhododendrons strongly wooded, 15 to 20 buds; Azalea Mollis, Red and Yellow, well budded; Roses \$7.00 per 100; Rhododendrons \$50.00 per 100; Azalea Mollis \$20.00 per 100, 25 at 100 rate. Roses come 10 in a bundle of one variety. Stock subject to being sold.

Paul Neyron, deep clear rose
 Clio, flesh color, delicate texture, very large
 Baby Rambler, red cluster, monthly
 Gabriel Luizet, beautiful satiny pink
 John Hopper, brilliant rose to glowing pink, fragrant
 Marie Bauman, rich ruby red, fragrant
 Duke of Edinburgh, dark velvety
 Pres. Lincoln, grand red
 Madame Cochet, light rose
 Francois Michelon, light red
 Dr. Lindley, vermillion
 Captain Haywood, grand crimson (good one)
 Mrs. Sharran Crawford, rose pink, large and fragrant
 Dorothy Perkins, pink
 Gloire de Dijon, yellow
 Caroline Testout, beautiful silvery, monthly
 Captain Christy, variegated
 Frau Karl Druschki, splendid white
 Magna Charta, pink
 Princess Mary Tutionia, light red
 La France, velvety rose
 Gloire de Margottin, dazzling red
 Ulrich Brunner, cherry red

Ba on de Rothschild, light pink
 Mrs. John Laing, soft pink
 Fisher Holmes, brilliant crimson
 General Jacqueminot, brilliant crimson
 Perle des Blanchés, white
 Anna de Diesbach, silvery carmine
 Margaret Dickson, white pink
 Climbing La France, velvety rose
 Pæonia, red
 Monsieur Boncenne, deep crimson

In Varieties, all colors

Gruss an Teplitz, "Flock" Liberty, grand summer rose, sheet of crimson and scarlet.
 Duke of Teck, bright crimson
 Duke of Edinburgh, vermillion
 Crimson Ramblers
 Alfred Colomb, carmine

Rhododendrons

Hybrid Fastuosum Flora Plena, purple
 " Prince Camille de Rohan, blush
 " Sir Charles Napier, light red
 " Madame Wagner, red

Hybrid T. T. Seidel, lavender
 " Blandianum, red
 " Cynthia, red
 " Wm. Austin, dark crimson
 " Mrs. John Waterer, crimson pink
 " Catawbiense, purple
 " Prin. Marie of Cambridge, cherry red
 " Miss Waterer, deep red
 " John Waterer, red
 " Sir Robert Peel, red
 " Vesuvius, red
 " Lady Clermont, red crimson
 " Helen Waterer, soft pink
 " The Warrior, red

Rhododendron Jacksoni, crimson pink
 " Hyb. Catawbiense Alba, purple
 " Parson's Gloriosa, pale lavender
 " President Lincoln, purple
 " Cunninghami, white
 " Maxima Roseum, crimson pink
 " Catawbiense Grandiflora, purple

Rhododendron Roblino, light red
 Azalea Mollis, Duc Van Thol, red
 " " yellow orange

W. ELLIOTT & SONS

201 Fulton Street

NEW YORK

VINCA SEED

Mr. Florist, do you know the right time to sow Vinca seed is right now.

	Trade pkt.	Per oz.
Vinca Alba, white, with rose centre.....	\$0 15	\$0 50
" " Pura, pure white.....	.15	.50
" Rosea, pink.....	.15	.50
" Mixed.....	.10	.40

BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation. BODDINGTON'S CHRISTMAS WHITE. A grand companion to Christmas Pink.

10c per oz.; 1/4 lb. 30c; 1/2 lb. 50c; 1 lb. 75c.

Our Fall Bulb Catalogue now ready. If you have not already secured one, send a postcard today. It contains a full line of bulbs and flower seeds.

ARTHUR T. BODDINGTON, 342 West 14th St., N.Y. City

BAMBOO CANES

TOUGH AND STRONG
 6 ft. long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO., - 50 Barclay St., New York

Best Quality Fall Bulbs

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent upon request. Catalogues now ready.

VICK'S SUPERB PANSY SEED

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 75c. 1-4 oz. \$1.50 Ounce \$5.00

JAMES VICK'S SONS, Rochester, N. Y.

BRASLAN SEED GROWERS CO.

GROWERS FOR THE
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 SAN JOSE, - - CALIFORNIA

CAULIFLOWERS CABBAGE

HJALMAR HARTMANN & CO.,
 12 Stormgade,
 COPENHAGEN, DENMARK.

CYCLAMEN

Farquhar's Giant Strain

Unsurpassed for size of flowers.

Giant Crimson Giant Pink
 Giant White Finest Mixed
 Giant Excelsior, White with
 Claret Base

100 seeds, \$1 25; 1000 seeds, \$10.00

R. & J. FARQUHAR & CO.
 6 & 7 So. Market St., Boston, Mass.

BULBS

SPIREA JAPONICA, COMPACTA MULTIFLORA, FL. RIBUNDA, GLADSTONE

Get our special prices on surplus Bulb stock.

Joseph Breck & Sons Corp.
 47-54 NO. MARKET ST., BOSTON, MASS.

JUST ARRIVED LARGE SHIPMENT OF High-Grade SCOTCH SOOT.

We have the Stott Double Nozzle
 THOMAS J. GREY CO.
 32 & 33 So. Market St., BOSTON

C. C. MORSE & CO.

Address all communications to our permanent address
 48 to 56 Jackson St., San Francisco, Cal.

The Largest Seed Growers
 in the United States

Burpee's Seeds PHILADELPHIA

Blue List of Wholesale Prices mailed
 only to those who plant for profit.

PHILADELPHIA NOTES.

"Lynwood Hall," the new white chrysanthemum so much admired at the Philadelphia and New York exhibitions, has been purchased by E. G. Hill & Co. from William Kleinheinz.

The financial stringency is blamed by the Wm. Graham Co. as the cause of their embarrassment. The concern operated the retail store at 104 South 13th street. The same firm also conducted the Hugh Graham Co. greenhouses at Logan. The assets are stated ahead of liabilities in both concerns. David Rust was appointed receiver.

Scott's Mrs. Jardine and Hill's Princess roses—both debutantes—were each thought worthy of being decorated with the Pennsylvania Horticultural Society's silver medal by a special jury at the fall show.

Jno. E. Haines was at the same show with samples of his new seedling carnations, and was tireless in explaining their merits to all. Some of them looked promising. Across the aisle in the Kleinheinz exhibit, the Haines' Pink Imperial shone like a beacon light, and was undoubtedly the finest exhibition vase in the show with flowers over four inches across and three-foot stems.

Jno. Cook of Baltimore put up a fine vase of his new pink seedling rose, which was much admired. It was entered for exhibition only. This rose is said to be a great producer and will doubtless be heard from later.

PLANT IMPORTS.

There were entered at the port of New York during the week November 13 to 19, inclusive, the following plants, etc.:

Via Rotterdam: C. C. Abel & Co., 7 cs. bulbs; H. F. Darrow, 71 cs. plants; Wm. Elliott & Sons, 24 cs. do., 8 cs. trees, 11 cs. roots; J. W. Hampton, Jr., & Co., 28 cs. roots; Peter Henderson & Co., 21 cs. plants; 22 cs. roots; R. F. Lang, 17 cs. flower roots, 14 cs. plants; McHutchison & Co., 59 cs. plants; Ch. F. Meyer, 20 cs. roots, 10 cs. plants; O'Leary's Hort. Co., 12 cs. plants; P. Ouwerkerk, 68 cs. trees; Julius Roehrs, 17 cs. do., and shrubs; Stumpp & Walter Co., 4 cs. plants, 72 cs. roots, 12 cs. bulbs; J. Ter Kuile, 1 basket flower roots; J. M. Thorburn & Co., 1 cs. bulbs; Vaughn's Seed Store, 14 cs. plants, 38 cs. trees and shrubs; Weeber & Don, 18 cs. plants.

Via Antwerp: W. Elliott & Sons, 2 cs. plants; McHutchison & Co., 350 tubs laurel trees, 79 cs. plants; C. B. Richard & Co., 150 tubs laurel trees; Maltus & Ware, 9 cs. plants.

Via England: McHutchison & Co., 9 cs. trees; Maltus & Ware, 20 cs. plants.

From Germany: H. F. Darrow, 73 cs. lily of the valley, 4 cs. plants; McHutchison & Co., 66 cs. lily of the valley; Ch. F. Meyer, 533 cs. do.; 5 cs. plants; R. M. Ward & Co., 18 cs. lily of the valley; Forwarders, 15 cs. do., 2 bales plants; to order, 351 cs. lily of the valley.

From France: H. F. Darrow, 538 pgs. seed; Peter Henderson & Co., 52 pgs. do.; August Rolker & Sons, 12 cs. plants; Vaughn's Seed Store, 135 pgs. seed; sundry forwarders, 567 pgs. do.; 6 pgs. trees, 14 pgs. plants.

NEW CROP FLOWER SEEDS

VERBENA

Our Mammoth Fancy Strain is "out of the ordinary" quality, combining purity of color and very large flowers.

	Trade pkt.	Ounce
Pink	30	\$1.50
Blue	30	1.50
Scarlet	30	1.50
Striped	30	1.50
White	30	1.50
MAMMOTH, Fancy Mxd.	30	1.50
REGULAR	25	1.00

A choice lot of MAMAN COCHET ROSES, extra fine, pink and white, 2-year old, \$7.00 per 100.

VINCA. This stock comes from an old, reliable grower, whose seed has yet to cause a single complaint.

Choice Mixed, Trade pkt. 25c.; oz. 50c.

Also a complete assortment of separate colors.

SALVIA. (Scarlet Sage). The large, long spike types which produce brilliant flowers.

Trade pkt. Ounce

Splendens 25 | \$1.25 |

Clara Bedman 40 | 2 50 |

Ball of Fire 50 | 3 50 |

SMILAX, 1/4 lb. \$1.00, trade pkt. 10c., oz. 30c

GET OUR WHOLESALE CATALOG OF FLORISTS' FLOWER SEEDS
HENRY F. MICHELL CO., Market St., ABOVE Tenth Philadelphia, Pa.

Orders taken now for December or January Delivery

Phoenix Roebelini Seed

1000
\$7

5000
\$31.25

10,000
\$60

YOKOHAMA NURSERY CO., Ltd., 31 Barclay St., N. Y.

Andrew Carnegie

(Scarlet Harlowarden)

Needs no introduction, as you know it is the very best scarlet, the only one having the ideal shade of scarlet. The one we have all been looking for. Now is your opportunity to get your order booked for January delivery.

\$12.00 per 100. \$100 00 per 1000

CHICAGO CARNATION CO.

A. T. PYFER, Mgr.

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1908—TOREADOR—1908

Our new seedling Carnation. In color, a very much improved Prosperity, with the addition of strong stiff stems. The finest novelty for 1908. Awarded first-class certificate Toronto meeting of the American Carnation Society. Write us for further information.

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HYDRANGEA OTAKSA Field grown. 6c.
by the dozen or hundred. 8c, 10c and 15c each
Fine stock.

VIOLET, IMPERIAL Field grown. \$5.00 per
100, \$45.00 per 1000, 250
at 1000 rate.

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15,000 AZALEAS

in all sizes and varieties

25c. up to \$2.00 each

Also Kentias, Rubbers, Araucarias, Pandanus, Boxwood, Euonymus, Crotons, Areca and Eurya latifolia.

Extra good value in large

Specimen and Decorative Palms

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale, Mass.

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Wholesale Plant Grower,

College Point, - New York.

Price List of Foliage, Flowering
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application.

GODFREY ASCHMANN

Importer and Wholesale Grower
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of Araucaria Excelsa, Compacta, Robusta and Glauca;
Kentia Forsteriana and Belmoreana Azalea, Indica, etc.
Cultivator of Boston, Scottii, Barrowsii, Elegantis-
sima and Whitmali Ferns. Ferns for dishes, Cocos,
etc. Write for prices.

1012 Ontario St., Philadelphia

COLD STORAGE LILY of the VALLEY

For Christmas-flowering
CASE OF 2,500 PIPS FOR \$35.00

TULIPS For Bedding and Forcing

We offer below a few of the leading varieties for bedding and forcing of which we have the largest stocks
FOR COMPLETE LIST OF VARIETIES, SEND FOR SURPLUS LIST.

SINGLE EARLY TULIPS

Artus. An extra fine scarlet for bedding; also good forcer. \$1.25 per 100, \$11.00 per 1000.
Bizard V. dict. 75c. per 100, \$6.00 per 1000.
Cardinal's Hat. \$1.00 per 100, \$8.00 per 1000.
Chrysolora. \$1.00 per 100, \$7.50 per 1000.
Cottage Maid. \$1.25 per 100, \$10.00 per 1000.
Couleur Ponceau. \$1.00 per 100, \$7.50 per 1000.
Duchesse de Parma. \$1.25 per 100, \$10 per 1000.
La Reine. \$1.00 per 100, \$8.00 per 1000.
L'Immaculee. 80c. per 100, \$6.50 per 1000.
Yellow Prince. \$1.00 per 100, \$8.50 per 1000.

SINGLE LATE TULIPS

Byblooms. \$1.00 per 100, \$8.00 per 1000.
Darwin. \$1.25 per 100, \$10.00 per 1000.
Golden Crown. 75c. per 100, \$6.50 per 1000.
Parrots. Named, four best sorts. \$1.25 per 100. All colors mixed, \$1.00 per 100, \$7.50 per 1000.

DOUBLE TULIPS

Count of Leicester. \$1.00 per 100, \$7.50 per 1000.
Duke of York. \$1.00 per 100, \$8.00 per 1000.
Gloria Solis. \$1.50 per 100, \$12.00 per 1000.
Le Blason. \$1.50 per 100, \$12.00 per 1000.
Muriolo. \$2.25 per 100, \$19.00 per 1000.
Rose Blanche. \$1.00 per 100, \$8.00 per 1000.

NARCISSUS

Empress. Extra sized bulbs, \$1.75 per 100, \$15.00 per 1000.
Emperor. Extra sized bulbs, \$1.75 per 100, \$15.00 per 1000.
Golden Spur. Extra sized bulbs, \$1.75 per 100, \$15.00 per 1000.
Grande Maximus. \$1.25 per 100, \$10.00 per 1000.
Horsfieldi. \$1.50 per 100, \$12.50 per 1000.
Princes. Extra sized bulbs, 75c. per 100, \$6.00 per 1000.
Do ble Von Sion. First sized bulbs, \$1.25 per 100, \$9.00 per 1000; extra sized bulbs, \$1.50 per 100, \$12.00 per 1000; double-nosed bulbs, \$2.00 per 100, \$18.00 per 1000.

Alba Plena Odorata. 75c. per 100, \$5.50 per 1000.
Orange Phoenix. \$1.25 per 100, \$10.00 per 1000.
Paper White Grandiflora. \$1.25 per 100, \$9.00 per 1000.
Mrs. Langtry. \$1.00 per 100, \$7.00 per 1000.
Incomparable Stella. 75c. per 100, \$5.00 per 1000.
Poeticus Ornatus. 75c. per 100, \$6.50 per 1000.

HYACINTHS

Separate Colors. Single, \$2.50 per 100; double, \$2.75 per 100.
Fine Named. A fine selection of varieties, our selection, \$4.00 per 100.
Miniature, or Dutch Romans. A fine assortment of the best named varieties, \$1.75 per 100.

CROCUS

Finest Named Varieties. Baron von Brunow, David Rizzio, Mont Blanc, La Majestueuse, Mammoth Yellow, Purpurea Grandiflora, Queen of the Netherlands, and Sir Walter Scott. 60c. per 100, \$4.00 per 1000.

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK

Grand New Double Daisy

A sport from that great money-making single variety, **QUEEN ALEXANDRA**, that everybody grows to a good profit. You can do better with this. The flowers are large, averaging three inches in diameter, and none of the flowers comes single at any time of the year. It blooms freely, either under glass or outdoors. Young stock, out of 2½-inch pots, ready for delivery January 1, \$25.00 per 100.

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1421 Charles St., North, Baltimore, Md.

NEP. WHITMANI

2¼ in., \$5.00 per 100

NEP. WHITMANI

3½ in., \$25.00 per 100

BOSTON FERNS

2¼ in., \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

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NEPHROLEPIS SCOTTII All the Year Round

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Just to hand, C. Trianae, C. labiata, C. Mossiae, C. Intermedia, C. Schroderae, C. Speciosissima, C. Citrina, C. Gaskelliana, Laelia Anceps, L. Albida, L. majalis, L. Autumnalis, Epidendrum Vittelinum majus, E. Cooperianum, Oncidium Crispum, O. Varicosum, O. Cavendishianum, O. Luridum, Odont. Citrosomum. To arrive in a short time, C. Dowiana, C. Aurea, C. Warnerii, Miltonia Vexillaria.

GARRILLO & BALDWIN SEGAUCUS, N. J.

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Just arrived, in fine condition.
Cattleya Trianae (new district).
Oncidium Varicosum Rogersii.
Write for prices.

JOSEPH A. MANDA, 191 Valley Road, WEST ORANGE N. J.

LET US QUOTE

on your wants in Callas, Paper White Grand, Narcissi, 13 cm. up. All Dutch Bulbs, Wood Moss.

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THE FINEST

Lily of the Valley Excellenta

From cold storage. Only few cases left. Please order at once. \$32.00 per case of 2000 fine pips.

JOHN SCHEEPERS & CO.
4 & 6 Old Slip, - - NEW YORK.

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ORDONEZ BROS.

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THOUSANDS OF ORCHIDS

In sheath, bud and flower.
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JULIUS ROEHRS COMPANY,
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THE YOKOHAMA NURSERY CO. NEW YORK.
LILIES
31 BARCLAY STR.
PLANTS
BAMBOO STAKES

TWIN CITY FLORISTS ORGANIZE.

Last week about forty florists, seedsmen and nurserymen in the Twin Cities visited the new park greenhouses on invitation of Superintendent Wirth. The greenhouses, potting shed, boiler room and root cellar were thoroughly inspected. The root cellar served as refreshment room and was highly appreciated. All were glad to see the progress the park department is making. There are at present only two propagating houses; three more of them and a large show house are to follow as the demand for floral display increases.

After some informal discussions the party settled down to business. Mr. John Munson, acting as chairman, called upon Mr. Wirth, who stated briefly his object in getting the florists together; to show them what the park board intends to do for the promotion of floriculture. He expressed surprise that there was no florist club in the Twin Cities and thought the time opportune to get one started. In case his suggestion should be taken up



PARK GREENHOUSES, MINNEAPOLIS.

favorably he would be glad to have them make use of the potting shed as a meeting room. Messrs. E. Nagel, the veteran florist, O. A. Will, the junior florist, and A. W. Hobert, superintendent of Lakewood Cemetery, supported Mr. Wirth's proposition. The motion was made by Mr. Hobert and carried to extend to Mr. Wirth a hearty vote of thanks for the interest he is taking in the promotion of floriculture and for the entertainment furnished. Twenty-six signatures were obtained for membership in the proposed club, and Messrs. Theo. Wirth, E. P. Holm of St. Paul and A. S. Smith of Lakewood Cemetery were appointed a committee to draft by-laws and report at a later meeting for organization.

Mr. Ed. Levin, from the Twin City Pottery, reported that his firm is looking for financial aid to carry on the business. As he expects to find a ready market for his products in the Twin Cities he wants the florists to help him by securing shares and forming a stock company. On motion Messrs. Hans Rosacker and R. Westling of Minneapolis, Frank Gustavson N. C. Hansen and C. Lawritson of St. Paul were appointed a committee to investigate fully and report at next meeting.

C. N. RUEDLINGER.

EXTRA FINE BOXWOOD \$17.50 per CWT.

GALAX LEAVES GREEN \$1.00 per 1000.
BRONZE, new crop in a few days.

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Best Ferns in Market \$1.25 per 1000.

See Our Cut Flower Ad.

HENRY M. ROBINSON & CO., FLORISTS' SUPPLIES 15 Province St., and 9 Chapman Pl., BOSTON

LOCAL AND FLORISTS' SHOWS.

The annual exhibition at Washington Park, Albany, N. Y., opened on the 9th inst.

November 3 was chrysanthemum day with the Lake Newell Floral Co., E. Liverpool, O., Edwin Simpson, manager.

Henry Rieman, Indianapolis, opened his greenhouses to the public last week with a display of cut flowers and plants.

A band concert added to the attractiveness of the flower show at the store of M. S. Hall, Osage, Ia., November 12-14.

The attendance during the first week of the chrysanthemum show at the

mum show. Saturday was a great day for yellow chrysanthemums, the annual football game in Ann Arbor being played there. Some florists' windows were prettily decorated for this occasion in pale blue and yellow.

BUSINESS CHANGES.

J. J. Martin succeeds H. White at No. Manchester, Ind.

Ordonez Bros. have taken the store of K. E. Kaulbach, Madison, N. J.

Whittle & Riggs have leased the greenhouses of John Vogel, Albany, N. Y.

Harry Hoffman has purchased his partner's share of the business at Jacksonville, Ill.

A. L. Wheeler of Mason City, Ia., has disposed of his business to I. O. Kemble of Marshalltown.

Charles E. Morton, Chicago, has disposed of his flower store, 3626 Cottage Grove avenue, to Philipp & Opitz.

F. Burfitt and Walter Mott have given up their business in Sharon, Pa., and returned to Springfield, Mass.

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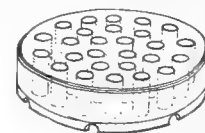
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M. V. CARNSEY, Dept. N,
130 Waiola Ave., La Grange, Ill.

Missouri Botanical Gardens, St. Louis, averaged 5,000 daily.

The chrysanthemum display at Eden Park, Cincinnati, O., has been a feature of the past week and brought out an attendance that must certainly be gratifying to Superintendent Rodgers and his assistants.

November 13 and 14 at the greenhouses of Irwin Bertermann, Indianapolis, Ind., there was an attractive display of chrysanthemums, etc. The new rose, Mrs. Jardine, was also included in the exhibit.

Wm. L. Rock Flower Co., Kansas City, Mo., gave their eleventh annual exhibition for three days last week. The chrysanthemum predominated and gorgeous blooms were displayed rivaling anything heretofore brought out by this up-to-date establishment.

The exhibit of the Baur Floral Co., Erie, Pa., during the past week has been pronounced the best of the year in that city, and the interested public have been eager attendants thereon. Orchids were used for the window decoration, and the chrysanthemums and general stock were in superb condition.

John Breitmeyer's Sons beautiful Detroit store was the mecca of society last Thursday, Friday and Saturday, this being their annual chrysanthemum

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F. M. Young, 7 E. Main street, Walla Walla, Wash.
W. H. Workmans, 21 W. Bridge street, Oswego, N. Y.
Myers Bros., E. 10th St., Tyrone, Pa.
Miss Lucy Lehner in charge.
Pansy Garden Flower Shop, 2020 West Madison street, Chicago.

PERSONAL.

Wm. Utterman has taken a position with the Farmer Seed Co., Faribault, Minn.

Charles Ingram has taken a position with W. J. Dana, florist, Wellesley, Mass.

L. E. Marquisee, of Syracuse, N. Y., is recovering from injuries received by a severe fall.

Milburn P. Ward, the well-known florist of Peabody, Mass., was married to Miss Katherine C. Nickels in Mattapan, on November 16. On their return from their trip they will reside at 47 Warren St., Peabody.



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MAJOR BONNAFFONThe best all 'round Yellow Chrysanthemum. Strong stools,
\$5.00 per 100**W. W. EDGAR CO., Waverley, Mass.****To Make the Store Pay**

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WINDOW BOXES are in the minds of every householder at present.**Have You a Good Assortment of Suitable Plants to Show Customers?** If not, send at once to Samuel C. Moon, Morrisville, Bucks Co., Pa., for sample order. He furnishes**HARDY EVERGREENS** stocky little plants of Juniper, Thuja, Retinospora, etc., at \$15.00 per 100; \$2.00 per doz. **Send to-day.** You are losing business by every hour's delay.**SAMUEL C. MOON, MORRISVILLE, PENNA. BUCKS CO.,****FLOWER MARKET REPORTS**

BOSTON The extreme dullness in the cut flower market continues, as noted in previous reports. Not for many years has this been so pronounced and as yet there is little on which to base hopes for improvement. Colder weather and the wane of the chrysanthemum should help a little.

BUFFALO The wholesaler has much to complain of, as the previous week was one of the duller on record. Sales were few, and those few were not large, though a good line of all flowers could be had and at low prices. The buyers had their own way, but nothing moved until Saturday, when a fair cleaning up was had. Violets, lilies of the valley, Roman hyacinths, etc., are plentiful and have been carried along in stock. Chrysanthemums are at a standstill, also carnations, the latter being mostly in shorter grade. As for roses, there is very little outlet for the abundance of stock received, and the wholesaler is praying for some way to keep the stock for the holidays. The money stringency is no doubt the cause, as the retailers claim that nothing can be moved even at a price lower than the wholesale reports. It is hoped that this week will end more satisfactorily to the grower, wholesaler and retailer.

DETROIT Business conditions are well up to the standard, and special impetus was given to the flower demand through the death of Dexter M. Ferry. This occasion called for many high grade designs and orchids played a great figure therein. American Beauties also were very prominent.

INDIANAPOLIS The market was quiet the past week. The stringency in the money market might be to blame to some extent. Chrysanthemums still dominate. Receipts fair, quality improved, for the good late sorts are now being cut; however, prices are not high; in fact the growers called them low and there is little prospect of anything much better being realized this season. There are superb roses to be had. Long Beauties are in good quantity but medium lengths are scarce and command a premium. Fancy Richmond, Killarney, Bridesmaids, Kaiserin, Chateau

and the specialty roses are equal to market requirements. Carnations are in good quality but don't move as fast as usual at this time of the year. Easter lilies, lily of the valley, etc., are abundant. Violets are beginning to be called for and they sell out at a fair price. Orchids have sold well and all the leading stores carry a good stock to meet the growing demand.

PHILADELPHIA There was a slight improvement in market conditions here last week, but the supply of flowers is still ahead of demand. Chrysanthemums are still in very heavy supply, although the high tide has now been reached and the cut will diminish very materially during the next ten days. Roses were not quite so plentiful and the demand improved a little—if anything. Beauties were among the best sellers. Richmonds are good and go fairly well. Fancy carnations cleaned up well and the lower grades also showed some improvement. There have been few big football games here this season which has been bad for the violet market, which rules one-third lower than last year. In orchids there are enough catleyas to go around and a sprinkling of other varieties. Gardenias are good and meet ready sale.

NEW YORK The conditions reported last week continue unabated, and there is much disquietude both in retail and wholesale quarters concerning the heavy crops and the utter lack of adequate demand. The prospects are quite discouraging at present and nobody can say how long it is going to continue. All are hoping for a clearing up.

TWIN CITIES Business is good. One wholesale house reported a shortage in carnations, but they are having everything in plenty now. The first sweet peas are appearing. Roses, carnations, poinsettias are coming on good in this clear, sunny weather and are very promising for the holidays. Quite a good percentage of cut flowers used in the Twin Cities are shipped in from Chicago.

Fire at Nos. 110-112 West 26th St., New York, on November 13, did a slight damage to the stock of the Geller Florist Supply Co. Insured.

NEWS NOTES.

B. M. Goday, florist, Peabody, Mass., has filed a petition in bankruptcy. Liabilities, \$2,452; assets, \$258.

John C. Hatcher of Amsterdam, N.Y., will open a branch store in the station of the N. Y. Central R. R., Schenectady, about Jan. 1.

A meeting of the stockholders of Parsons & Sons Co., Ltd., Flushing, N. Y., has been called for Dec. 6, for the purpose of dissolving the corporation and such other business as may come up.

Edwin Oyster has been appointed receiver for the Templin Co. of Calla, O. Assets are said to be \$90,000, with liabilities about the same, not including the capital stock. The business will be continued.

A fire started in the coal bin at Appledorn's greenhouse, E. Bridgewater, Mass., on Saturday last, but was discovered before it had gained much headway. It was thought the coal was stored too near the furnace.

On the completion of the improvements recently made by G. Fleischer of Pueblo, Colo., to his range of houses the public were invited to inspect them, and some 2,000 people were in attendance on opening day. The recent additions now make a total of sixteen houses.

THANKSGIVING DAY

Coming on Thursday of next week, correspondents and advertisers are requested to send matter one day earlier than usual, as we shall go to press on

WEDNESDAY P. M., NOV. 27.

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	Last Half of Week ending Nov. 16 1907	First Half of Week beginning Nov. 18 1907		Last Half of Week ending Nov. 16 1907	First Half of Week beginning Nov. 18 1907
Roses			Carnations, Fancy and Novelties...	1.00 to 2.00	1.00 to 2.00
Am. Beauty, fan and sp.	10.00 to 20.00	10.00 to 20.00	Ordinary .....	.25 to .50	.25 to .50
extra	8.00 to 12.00	8.00 to 12.00	Violets .....	.25 to .40	.25 to .40
No. 1.	4.00 to 6.00	4.00 to 6.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
Lower grades	1.00 to 1.00	1.00 to 1.00	Lilies	4.00 to 6.00	4.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp	.50 to 4.00	.50 to 4.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
lwr. grds. ....	.50 to .50	.50 to .50	Gardenias	10.00 to 35.00	10.00 to 35.00
Liberty, Richmond, fancy & special	.50 to 4.00	.50 to 4.00	Chrysanthemums, Fancy	10.00 to 15.00	10.00 to 15.00
lower grades ..	.50 to .50	.50 to .50	Ordinary	1.00 to 2.00	1.00 to 2.00
Killarney, Wellesley, fan. and spec.	.50 to 4.00	.50 to 4.00	Adiantum	1.00 to 1.25	1.00 to 1.25
lower grades ..	.50 to .50	.50 to .50	Smilax	8.00 to 10.00	8.00 to 10.00
			Asparagus Plumosus, strings ..	25.00 to 40.00	25.00 to 40.00
			" & Spreng. (too bchs.)	15.00 to 15.00	15.00 to 15.00

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See our Fern ad.

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	CINCINNATI Nov. 18	DETROIT Nov. 19	BUFFALO Nov. 18	PITTSBURG Nov. 11
ROSES				
Am. Beauty, Fan, and Sp..... to 35.00 to 35.00	20.00 to 25.00	20.00 to 25.00
Extra.....	25.00 to 30.00	18.00 to 25.00	12.00 to 20.00	12.00 to 15.00
No. 1.....	15.00 to 20.00	10.00 to 15.00	8.00 to 10.00	6.00 to 10.00
Lower grades.....	8.00 to 10.00	4.00 to 6.00	3.00 to 8.00	..... to 4.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	7.00 to 10.00	7.00 to 10.00	5.00 to 8.00
Low. gr.	3.00 to 4.00	4.00 to 7.00	2.00 to 7.00	3.00 to 4.00
Liberty, Richmond, Chateauf, F&S	6.00 to 8.00	7.00 to 10.00	6.00 to 8.00	5.00 to 8.00
Lower grades	3.00 to 4.00	4.00 to 7.00	2.00 to 6.00	3.00 to 4.00
Killarney, Wellesley, Fan, & Sp...	6.00 to 8.00	7.00 to 10.00	8.00 to 10.00	5.00 to 8.00
Lower grades	3.00 to 4.00	4.00 to 7.00	5.00 to 6.00	3.00 to 4.00
CARNATIONS				
Fancy and Novelties.....	..... to 3.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Ordinary.....	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
MISCELLANEOUS				
Violets.....	.50 to .75	.75 to 1.00	.60 to 1.00	.75 to 1.00
Cattleyas.....	50.00 to 60.00	30.00 to 40.00	40.00 to 50.00	40.00 to 50.00
Lilies.....	12.50 to 15.00	15.00 to 20.00	4.00 to 15.00	15.00 to 18.00
Lily of the Valley.....	3.00 to 4.00	3.50 to 4.50	3.00 to 4.00	3.00 to 4.00
Chrysanthemums, Fancy.....	15.00 to 20.00	15.00 to 25.00	15.00 to 20.00	15.00 to 25.00
Ordinary.....	4.00 to 10.00	10.00 to 15.00	5.00 to 10.00	4.00 to 12.00
Adiantum.....	..... to 1.00	1.00 to 1.50	.50 to 1.00	1.00 to 1.50
Smilax.....	2.50 to 15.00	15.00 to 20.00	12.00 to 15.00	15.00 to 18.00
Asparagus Plumosus, strings.....	40.00 to 50.00	50.00 to 75.00	40.00 to 50.00	30.00 to 50.00
" & Sprea. (100 bchs.)	25.00 to 35.00	20.00 to 25.00	25.00 to 50.00	30.00 to 40.00

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We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties

and are dealers in

Glassware Decorative Greens and Florists' Requisites.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
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ACHYRANTHES

Achyranthes, yellow, 2½-in., 2c.; 3-in., 4½c.
Hammerschmidt & Clark, Medina, Ohio.

ADIANTUMS

Adiantum Hybridum, 2-12 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A Ley & Pro., Highland, Ulster Co., New York.
Snapdragon Queen of the North, 3-12 in. pots, in bud and bloom, \$4.00 per 100. Alonzo J. Bryan, Washington, New Jersey.

ARAUCARIAS

Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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ASPARAGUS

Asparagus Sprengeri, 2½-in., 1½c. Fine. Hammerschmidt & Clark, Medina, Ohio.

Asparagus Sprengeri, field grown, \$4.00 and \$6.00 per 100. C. Winterlich, Defiance, Ohio.

Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100; \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa.; or Wm. F. Kasting Co., 385 Ellicott St., Buffalo, N. Y.

AUCTION SALES

Wm. Elliott & Sons, 201 Fulton St., New York.

Auction Sales of Conifers, Hardy Shrubs, Etc.

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Sales every Tuesday and Friday. If you cannot attend send bids and shipping instructions. Catalogues on application. N. F. McCarthy & Co., 84 Hawley St., Boston.

AZALEAS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

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Bobbink & Atkins, Rutherford, N. J.
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W. W. Edgar Co., Waverley, Mass.
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BAMBOO CANES

Stumpp & Walter Co., 50 Barclay St., New York.

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Yokohama Nursery Co., 31 Barclay Street, New York.

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Ralph M. Ward & Co., 12 W. Broadway, New York.

BAY TREES.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEGONIAS

Begonias, flowering; 6 varieties, 3-in., 4½c. Fine for Christmas trade.
Hammerschmidt & Clark, Medina, Ohio.

BOILERS

BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOXWOOD

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

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Bobbink & Atkins, Rutherford, N. J.
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Henry M. Robinson & Co., 15 Province St., Boston.
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BUILDING MATERIAL

BUILDING MATERIAL of all description for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths; Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
White Roman Hyacinths.

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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.
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James Vick's Sons, Rochester, N. Y.
Fall Bulbs.

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D. Rusconi, 128 W. Sixth St., Cincinnati, O.
Callas, Narcissi, Dutch Bulbs.

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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Tulips, Hyacinths, Narcissi, Crocuses.

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Aug. Rolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs.
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John Scheepers & Co., 4 and 6 Old Slip, New York.

Lily of the Valley Excellents.
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Wm. Elliott & Sons, 201 Fulton St., New York.

St. Davids Late-Dug Harrisii.

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S. G. Harris, Tarrytown, N. Y.
Hyacinth and Narcissus Mother Bulbs.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

CARNATIONS

Field Grown

F. Dorner & Sons Co., Lafayette, Ind.
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Chicago Carnation Co., Joliet, Ill.
Carnation Andrew Carnegie.

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The H. Weber & Sons Co., Oakland, Md.
Seedling Carnation Toreador.

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Surplus Carnation plants: Enchantress, Lawson, Queen, Fair Maid, Rose-Pink Enchantress, Victory, etc. For information write Peirce Bros., Waltham, Mass.

Rooted Cuttings

John E. Haines, Bethlehem, Pa.
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CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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A. N. Pierson, Cromwell, Conn.
Chrysanthemum Stock Plants.
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Wm. Swayne, Kennett Square, Pa.
Chrysanthemum Stock Plants.
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W. W. Edgar Co., Waverley, Mass.
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October Frost, the best early white Chrysanthemum, strong stock plants, \$1.00 doz. Clementine Touse, 75c. doz. C. H. Ketcham, N. S. D., South Haven, Mich.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2-12 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums, stock plants, October Frost, Rosiere, 6c.; Monrovia, Touse, 5c.; Kalb, October Sunshine, Pacific, Lady Harriet, Bonnaffon, Alice Byron, Nellie Pockett, Duckham, Perrin, Balfour, Black Hawk, 3c. Cash. Wm. Bierstadt & Son, Springfield, Ill.

COLEUS

Coleus, all kinds, fine, 2½-in., 1½c.
Hammerschmidt & Clark, Medina, Ohio.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Oak Hill Nurseries, Roslindale, Mass.
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Bay State Nurseries, North Abington, Mass.
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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

We Have Them.

Send for New Illustrated Catalogue.

H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 1741 N. 18th St., Philadelphia.

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DAHLIAS

David Herbert & Son, Atco, N. J.
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A. B. Davis & Son, Purcellville, Va.
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Palisades Nurseries, Sparkill, N. Y.

DAISIES

The Fernery, 1421 Charles St. N., Baltimore, Md.

New Double Daisy.

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White Marguerite Daisies, 2-in. pots, \$2.00 per 100. E. O. Perry, Berlin, Mass.

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DECORATIVE PLANTS

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John Scott, Brooklyn, N. Y.
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FERTILIZERS

Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.

Wizard Brand Cattle Manure.
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FLORISTS' GREENING PINS

We Have Them.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

FLORAL PHOTOGRAPHS

Floral Photographs, Foley's 226-228 1-2
Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.

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Koral Mfg. Co., 26 Hawley St., Boston.
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We Have Them.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

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9 Chapman Pl., Boston, Mass.
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Decorative Evergreens.
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Gude Bros. Co., 1214 F St.,
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Atlanta Floral Co., Atlanta, Ga.
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P. J. Hauswirth, 232 Michigan Ave.,
Chicago.
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William J. Smyth, Michigan Ave. and 31st
St., Chicago.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Julius A. Zinn, 2 Beacon St., Boston.
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Houghton & Clark, 396 Boylston St.,
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St. Louis, Mo.
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Fred C. Weber, 4326-28 Olive St.,
St. Louis, Mo.
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Alex. McConnell, New York.
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A. Warendorff, 1193 Broadway, New York.
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Robert G. Wilson, Fulton St. & Greene
Av., Brooklyn, N. Y.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.
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Finest green and bronze Galax in any
quantity at lowest figures. N. F. Mc-
Carthy, 84 Hawley St., Boston.

We Have It.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin,
New York.
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J. L. Moore, Northboro, Mass.
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E. S. Miller, Wading River, N. Y.
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Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

Augusta gladioli, and white and light.
Rowehl & Granz, Hicksville, L. I., N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury
St., Boston.
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Foley Mfg. Co., between Western Ave. and
26th St., Chicago, Ill.

GLASS, High Grade, Double Thick Green-
house Glass. Lord & Burnham, 1133 Broad-
way, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

GRADING AND PLANTING

D. Robinson's Sons, Revere Beach Park-
way, Everett, Mass.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Metropolitan Material Co., 1398-1408 Metro-
politan Ave., Brooklyn, N. Y.
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S. Jacobs & Sons, 1365-79 Flushing Ave.,
Brooklyn, N. Y.

D. Iliffe, 49 Washington St., N., Boston
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-
Iron Greenhouse, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.

J. A. Payne, 260-274 Culver Ave., Jersey
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I. Cassidy, 215 to 221 Randolph Ave., Jer-
sey City, N. J.
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GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B.
Improved V Shaped Gutter with drip gut-
ter attachment. Lord & Burnham, 1133
Broadway, N. Y.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND SUPPLIES

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Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Fancy Ferns.

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A full line of ferns, galax, and all wild
greens. N. F. McCarthy & Co., 84 Haw-
ley St., Boston.

HARDY HERBACEOUS PLANTS

Bay State Nurseries, N. Abington, Mass.
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Van Meerbeek & Co., Hillegom, Holland.
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In writing to Advertisers kindly mention Horticulture

HEATING TROUBLES CURED

W. W. Castle, 170 Summer St., Boston.

HOT-BED SASH

The A. T. Stearns Lumber Co., Nepouset, Mass.

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Plant Oil.

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Carman's Anti-pest.

Perfection Chemical Co., Flushing, N. Y.

W. W. Rawson & Co., 5 Union St., Boston.

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Nicotinic acid kills all greenhouse pests.

P. R. Palethorpe Co.,

Eleventh St., Owensboro, Ky.

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IRISES

E. S. Miller, Wading River, N. Y.

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We have 100,000 Japan Irises, the finest collection in this country. Rowehl & Granz, Hicksville, L. I., N. Y.

JAPANESE LILIES.

Ralph M. Ward & Co., 12 W. Broadway, New York.

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JAPANA CUT FLOWER HOLDER

M. V. Garnsey, 130 So. Walola Av., La Grange, Ill. Dept. O.

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We Have Them.

Send for New Illustrated Catalogue.

H. Bayersdorfer & Co.,

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KENTIAS

A. Leuthy & Co., Roslindale, Mass.

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Thomas Young, Jr., New York.

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Young & Nugent, 42 W. 28th St., N. Y.

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Mills the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.

Long distance telephone connections.

LILY OF THE VALLEY

The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Cold Storage.

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LOBELIAS

LOBELIA KATHLEEN MALLARD.

New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 12 W. Broadway and 227 Greenwich St., New York.

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MUSHROOM SPAWN

100 lbs. best English, \$6; 250 lbs. at 5½c.; brick prepaid, 22c. J. J. Styer, Concordville, Pa.

NEW AND RARE PLANTS

Rose Hill Nurseries, New Rochelle, N. Y.

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NICO-FUME

Kentucky Tobacco Product Co.,

Louisville, Ky.

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NURSERY STOCK

John Waterer & Sons, Ltd.,

American Nursery, Bagshot, England.

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New England Nurseries, Bedford, Mass.

Shrubs, Roses and Herbaceous Perennials.

Specimen Pyramidal Box.

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The Conard & Jones Co., West Grove, Pa.

Hardy Stock.

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Herbaceous Perennials, Hardy Ornamental

Trees.

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Oak Hill Nurseries, Roslindale, Mass.

Ornamental Nursery Stock.

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Nursery Stock. N. F. McCarthy & Co.,

84 Hawley St., Boston, Mass.

P. Ouwerkerk, 216 Jane St., Weehawken

Heights, N. J.

Holland Nursery Stock for Forcing.

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Lager & Hurrell, Summit, N. J.

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Sander, St. Albans, England.

Importers, Exporters, Growers, Hybridists

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Carrillo & Baldwin, Secaucus, N. J.

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Jos. A. Manda, 191 Valley Road, W.

Orange, N. J.

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Ordonez Bros., Madison, N. J., Box 106.

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E. S. Miller, Wading River, N. Y.

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PALMS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

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Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice pansy plants, 50c. per 100; \$4.00 per 1000. Cash. Aug. Zirngelbel, Needham, Mass.

PATENTS

Siggers & Siggers, Washington, D. C.

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PEAT

Orchid peat, Rotted peat, Azalea peat, Leaf-Mould, Live Sphagnum moss, Baled Sphagnum moss, Green Clump moss, etc. Jobbers' list on application. C. W. Brownell & Co., Walden, N. Y.

PEONIES

Peonies and Perennials; Peony, Phlox and Evergreen Manuals, 25 cents each, in stamps. C. S. Harrison's Select Nursery, York, Nebr.

PHOENIX ROEBELINI SEED

Yokohama Nursery Co., 31 Barclay St., New York.

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PIPE AND FITTINGS

Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT AND TREE TUBS

American Wooden Ware Mfg. Co.,

Toledo, O.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.

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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIVET

Privet Amurensis, all sizes. Write for trade list. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

RAFFIA

Samples free. Large assortment of colors. R. H. Comey Co., Camden, N. J., or, 810-824 Washburn Ave., Chicago.

We Have It.

Send for New Illustrated Catalogue.

H. Bayersdorfer & Co.,

1129 Arch St., Philadelphia, Pa.

RHODODENDRONS

John Waterer & Sons, Ltd.,

American Nursery, Bagshot, England.

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ROSES

Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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Dwarf Roses.
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Boblink & Atkins, Rutherford, N. J.
Roses for Easter Forcing.
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New England Nurseries, Inc., Bedford, Mass.
Roses for Forcing.
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Low-budded roses, No. 1, \$95.00; No. 1-1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Crimson Ramblers, extra strong, 3-yr., for forcing, at 9 cts.. Gilbert Costich, Rochester, N. Y.

Pink and White Maman Cochet and Mrs. Cant, strong, field-grown rose plants, suitable for 6-in. or larger pots, \$7.00 per 100. Cash or C. O. D. John Peterson, Lake George, N. Y.

SEEDS

T. J. Grey Co., 32 So. Market St., Boston, Mass.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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Vinca Seed.
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Cauliflower and Cabbage Seed.
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O. V. Zangen, Hoboken, N. J.
Cyclamen Seed.
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Anti-mon leptopus, per lb. \$1.25; oz. 15c.
Ada J. Brooks, grower, Sorrento, Fla.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. I.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

We Have It.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schnitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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VEGETABLE PLANTS

Tomatoes for forcing, 2 1-2 in. Comet, \$2.50; Lorillard, \$2.00 per 100. Roney Bros., West Grove, Pa.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1183 Broadway, N. Y.

VIOLETS.

Baur Floral Co., Erie, Pa.
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Violets, 3,000 A-1 field grown Marie Louis, \$4.00 100. Cash. This is fine, healthy, clean stock. Frank Berry, Stillwater, Minn.

WINTER WINDOW BOXES

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WIREWORE

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

WHOLESALE FLORISTS**Boston**

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EXCHANGE

To Exchange Mums, stock plants for other stock. What have you to offer? John Irwin & Sons, Bay City, Mich.

In writing to Advertisers kindly mention Horticulture

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- THE BUFFALO SITUATION.**



"Dear Mr. Kasting:
"This little fellow, 65 years of age, has done all the manure business on chrysanthemums. He hopes that you will get all for them you can, because he likes a full dinner pail."

The above expressive drawing and accompanying note received by W. F. Kasting, in a shipment of chrysanthemums, indicates that the growers around Buffalo are not only artists but humorists. The subject of the sketch certainly deserves better than to be compelled to

"Line himself with hope,
Eating the air on promise of supply"
and we have no doubt he will fare all right with the hustling proprietor of the Ellicott street chamber of commerce and politics.

Mr. John T. Allan, gardener for Mr. J. R. Drexel, is a candidate for alderman to represent the fourth ward of the City of Newport, R. I. There are many others of the fraternity candidates for the council. Mr. Oscar Schultz is also a candidate for a seat in the aldermanic chamber as a representative from the fifth ward.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Hustling store manager to take stock in a small company doing good business in small Pennsylvania town; owner's time devoted to greenhouses, need man to take charge of store. Splendid opportunity to right party. Money not needed to run business, but only to insure business being taken care of. Give references. Address Pansy, care Horticulture.

SITUATIONS WANTED

SITUATION WANTED by married Scotchman as Foreman in commercial greenhouse; long experience with first-class references. Reply to "Foreman," 6 South Market Street, Boston, care of R. & J. Farquhar & Co.

SITUATION WANTED by gardener, age 30, single, full knowledge of fruits inside, stove and greenhouse collection. State wages. Address English, care HORTICULTURE.

SITUATION WANTED by good grower of roses, chrysanthemums and carnations; also good design maker; can furnish good reference. Address P. O. Box 325, Dover, N. H.

SITUATION WANTED by gardener with good record, private place preferred. Married, two children. Address N., care HORTICULTURE.

FOR SALE

FOR SALE—A well equipped new greenhouse, 80 feet long, 21 feet wide; new boiler house, new boiler and pipes and four other greenhouses, 60 feet long, attached. A large house, 12 rooms; also stable. A most desirable place in city of 15,000, and the oldest greenhouse plant in this section, and doing the largest business; or to rent to a man of energy and push. Chas. Z. Taylor, Middletown, N. Y.

GREENHOUSES FOR SALE—About 25,000 feet of glass; well stocked, 5000 roses, 2000 pinks, 2000 violets, 400 callas and 300 feet Asparagus Sprenger. One new house this year 160 x 53 feet. Reason for selling, other business takes all of owner's time. Well located for large retail trade. Also handy to the Boston market. Address R. A. B., care HORTICULTURE.

FOR SALE—4 Greenhouses, most desirable location in the Newtons; large lot land fronting on two streets, dwelling house of 8 rooms; all flowers sold at door for fancy prices; excellent business, best reasons for selling; price will be made reasonable. Pelkey-Wallace Co., 101 Tremont St., R. 717, Boston.

FOR SALE—One top delivery wagon and one open delivery wagon, suitable for a florist's use; almost new and in good order; also a pair of good delivery horses; the above can be bought at your own price. Ed. Higons, 146 West 28th st., New York.

MISCELLANEOUS WANTS

WANTED right away, 150 to 200 ft. of used 4-inch drainage pipe (cast iron standard light), 5 ft. lengths. Must be cheap for cash. Write E. F. Oliver, P. O. Box 143, Avon, Mass.

TWO IN ONE WEEK?

Joseph Fenrich, wholesale florist at 110 West Twenty-eighth street, is again handing cigars to his friends. His wife presented him another boy (the second) last week.—Florists' Exchange.

At the November meeting of the Yale corporation, held at New Haven on Nov. 18, announcement was made of the receipt of a gift of \$50,000 for the chair of applied forestry and practical lumbering in the Yale forestry school.

?

Is Your Name In The Above List? If Not, Why Not?

Obituary

Prof. Lucien M. Underwood.

Professor Lucien M. Underwood of Columbia University died by his own hand at his home in Redding, Conn., on Saturday, 16th inst., after attempting to first kill his wife and daughter. His wife was seriously cut, but will recover. Temporary insanity, due to recent money losses, is believed to have been the cause of the tragedy. Prof. Underwood was a botanist of high standing and had occupied the Chair of Botany at Columbia for the past eight years. He was born at Woodstock, Vt., 54 years ago. From 1883 to 1891 he was professor of biology in Syracuse University. He then accepted the chair of botany at De Pauw University, Indiana, and left in 1895 to take charge of the biology department of the Alabama Polytechnic, Auburn, Ala., going to Columbia the following year. He was the author of many text books and treatises on botany, especially on native ferns. Among his best known books is *Our Native Ferns and Their Allies*, first published in 1891 and followed by a number of later editions.

James C. Luitweiler.

James C. Luitweiler of York, Pa., aged 77, died on November 4. A widow and five children survive him.

Mrs. I. T. Roadhouse.

Mrs. I. T. Roadhouse, vice-president of the J. M. Kimberlin Co., Inc., died at Berkeley, Calif., October 17.

Mrs. C. Held.

Mrs. C. Held, for the past twenty years actively engaged in the florist business in Baltimore, died suddenly on Nov. 11.

Frank Lichtefeld.

Frank Lichtefeld, a native of Germany, but since 1848 a resident of Louisville, Ky., died on November 7, at the age of 85.

Prof. E. Gale.

Prof. E. Gale, for many years professor of horticulture of the Kansas State Agricultural College, died on November 6 at West Palm Beach, Fla.

Mrs. Catherine Waltz.

Mrs. Catherine, widow of Frederick Waltz, one of the early florists of Detroit, died at the age of 74, on November 11. Among her surviving children are Mrs. G. H. Taepke and Mrs. M. A. Flammer.

CLUB AND SOCIETY NOTES.

The Florists' Club of Albany, N. Y., will hold their meetings in future at 67 South Pearl street.

The Maine Pomological Society met in the Opera House, at Gardiner, Me.,

on Wednesday and Thursday, November 13 and 14. The sessions were largely attended by fruit growers from all parts of the state. Among the many interesting speakers were Prof. E. F. Hitchings, State Entomologist on Insect Depredations; Wilfrid Wheeler, of Concord, Mass.; A. A. Hixon, of Worcester; President T. L. Kinney, of the Vermont Horticultural Society; E. H. Burlingame, of Providence, R. I., and John W. Clark, North Hadley, Mass., on various fruit topics.

Officers were elected as follows: Pres., Wm. Craig; vice-pres., E. L. White, F. H. Morse; secy., W. J. Ricker; treas., E. L. Lincoln; trustees to represent each county.

GREENHOUSES BUILDING OR CON-TEMPLATED.

Galena, Kan.—E. Pierce, house 30 x 120.

Lisbon, N. H.—S. F. Hoskins, one house.

Washington, D. C.—S. Dietrich, one house.

Roselyn, Pa.—Max Meyer, range of houses.

Ottawa, Ont.—W. Sylvester, range of houses.

Wyomissing, Pa.—Heck Bros., range of houses.

Girard, Kan.—Sourdry Bros., range of houses.

Enfield, Mass.—H. W. Smith, conservatory.

Manchester, Mass.—W. F. Spry, house 30x75.

Columbus, O.—C. A. Roth, carnation house, 22x100.

St. Stephen, N. B.—J. R. Sederquist, addition 40 ft.

Morrisville, Pa.—W. H. Moon Co., range of houses.

Birmingham, Ala.—Reagor Bros., range of houses.

Hamilton, Mass.—Mrs. Hugo Johnstone, conservatory.

Newport News, Va.—F. T. Covey & Co., five houses, each 20 x 100.

LIST OF PATENTS.

Issued November 5, 1907.

869,958. Plant Spraying Machine. Frank Bateman, Grenloch, and Hillies C. Jones, Allentown, N. J., assignors to Bateman Mfg. Co., Grenloch, N. J.

869,977. Fertilizer Attachment for Planters. Clement W. Michael, Racine, Wis., assignor to J. I. Case Plow Works, Racine, Wis.

869,096. Grafting Tool. James M. Haley, Springdale, Ark., assignor of one-half to Frank F. Young, Springdale, Ark.

869,227. Rake. William Cronk, Montour Falls, N. Y.

869,319. Combined Plow and Cultivator. Joseph Schimanoski, St. Louis, Mo.

869,351. Harrow. Edward Ethridge, Stettler, Ark.

869,358. Mowing Machine. David R. Griffiths, Richville, N. Y.

869,421. Plow. Johnathan H. Edwards, Gilbertsville, Ky.



I MANUFACTURE AND ERECT

Iron frame and wood Greenhouses of every type for commercial and private use.

If you contemplate building, allow me to submit sketch and estimate covering your requirements.

JOHN A. PAYNE,

Horticultural Architect and Builder.

Main Office and Factory:

260-274 Culver Ave., Jersey City, N.J.

Sash opening apparatus and all kinds of greenhouse structural material.



The Best Bug Killer and Bloom Saver

For PROOF

Write to

P. R. Palethorpe Co.
OWENSBORO, KY.

CARMAN'S ANTIPEST

For the Garden, Orchard and Greenhouse.

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use cheap and effective mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. \$1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,
FLUSHING, N. Y.

Eastern Agents:

W. W. RAWSON & CO., 5 Union St. Boston, Mass.

The Pulverized Manure Co., of Chicago, have received a very convincing testimonial from Bassett & Washburn as to the efficacy and economy of the "shredded manure," backed up by an order for 300 tons. They say "in making manure water it is fully three to four times as strong as the rough manure. The advantages of its even quality and the easy and unobjectionable way of handling the manure, not a pound being wasted, makes it cheaper in our opinion than the rough manure which we can get for simply the cost of freight and loading."

You will find something worth reading on every page of HORTICULTURE.

Tobacco Paper

S THE

**STRONGEST,
BEST PACKED,
EASIEST APPLIED.**

24 sheets.....	\$ 0.75
144 sheets.....	3.50
288 sheets.....	6.50
1728 sheets.....	35.10

"NICO-FUME"

**Furnishes the
Most Nicotine for the Money!**

... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

LIQUID

OVER 40% NICOTINE

**By far the
CHEAPEST.**

JUST NOTE PRICES!

Pint.....	\$ 1.50
1/2 Gallon.....	5.50
Gallon.....	10.50
5 Gallons.....	47.25

WILSON'S PLANT OIL

If you want to make money there is only one way. That is to have clean stock and the only way to get it is by using WILSON'S PLANT OIL.

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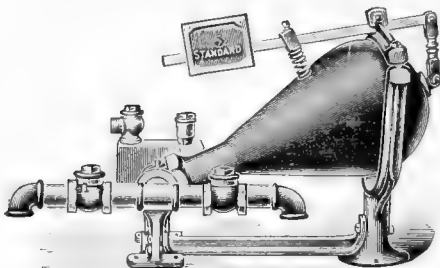
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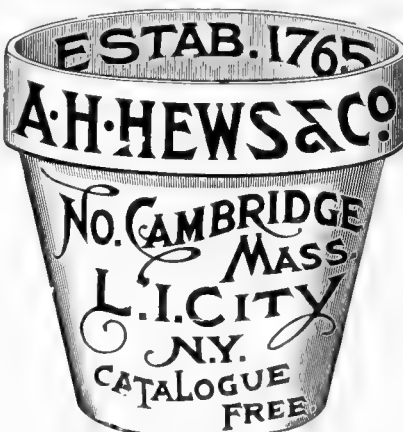
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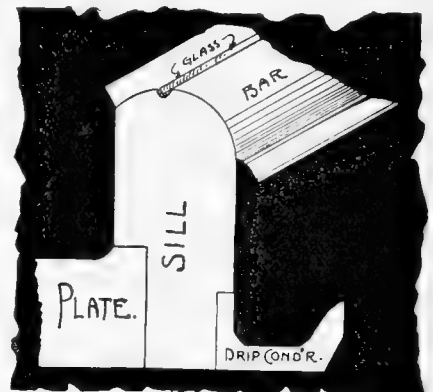


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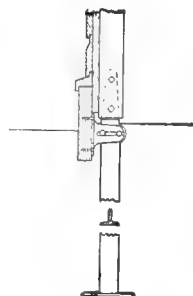
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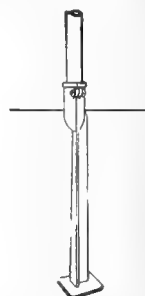
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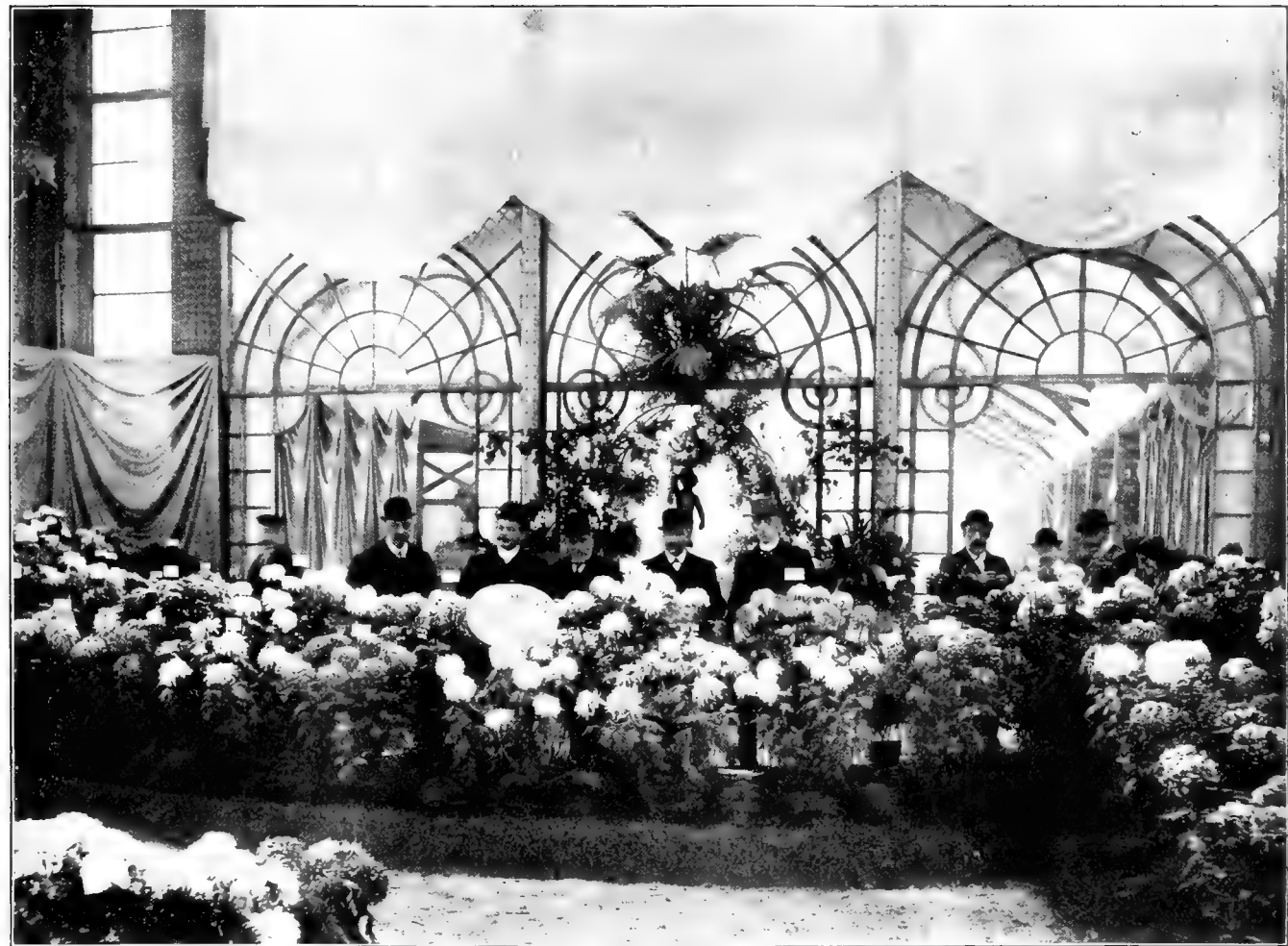
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HORTICULTURE

Vol VI.

NOVEMBER 30, 1907

No. 22



Rosette Foucard Schneider Nonin Payne

ONE END OF NONIN'S GROUP AT THE PARIS SHOW

This exhibit was arranged in the form of a parallelogram and centre bed with path around it

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FLORIST, PLANTSMAN,
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100 Columbia	75 Lady Pierson
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150 Cycle	100 Mrs. H. J. Jones
100 Capstan	100 Mrs. Stocks
50 Delicata	150 Mrs. J. P. Clark
75 Earl of Pembroke	100 Matchless
50 Erikoenig	125 Mrs. Dickson
100 Fuerst Bismarck	200 Primrose Dame
200 Greens White	150 Singinde
50 H. F. Michell	200 Standard Bearer
400 Innovation	100 Walthari
	50 Wm. Haage

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150 Antietam	200 White Swan
150 C. W. Bruton	100 A. D. Livoni
75 Countess of Pembroke	150 Crimson Ball
400 Catharine Duer	300 Floral Park Jewel
400 Ernest Glasse	250 Glowing Coal
100 Iridescent	150 Magnificent
200 Mrs. Basham	1500 Menhedy Beauty
1500 Nymphaea	150 President
500 Nedding	400 Penelope
500 Oban	1000 Prince Bismarck
300 Orange King	500 Queen Victoria
150 Perle d'Or	2500 Red Hussar

SHOW DAHLIAS	
200 White Swan	100 A. D. Livoni
150 Crimson Ball	300 Floral Park Jewel
250 Glowing Coal	150 Magnificent
1500 Menhedy Beauty	150 President
400 Penelope	1000 Prince Bismarck
500 Queen Victoria	2500 Red Hussar

POMPON DAHLIAS	
100 Alita	150 Elfin
350 Prince Charming	100 Vivid

COLARETTE DAHLIAS	
75.50 per 100	

50 Gallia	50 President Viger	50 Standard of Lyons
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\$7.50 per 100

100 Twentieth Century	50 John Downey	50 Lady Whitehead
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Choice Ornamentals

20,000 Berberis Thunbergii, 18 to 24 inch.
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40,000 Norway Spruce, White, Austrian and Scotch Pine, 1 yr. transplants, 6 to 12 inch.
1,000 White Pine, 12 to 18 inch. transplants.
2,000 Norway Spruce, 12 to 18 inch. transplants.
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Sedum spectabile



Situated far away from the large manufacturing and business centers, the month of September, for the northern part of the New England States, brings those days of marvellous atmospheric clarity, which indicate the near approach of autumn. The light, graceful leafage of the birches begins to turn yellow and with the white bark of their smooth, slender trunks stands out in vivid contrast against the dark, sombre green of massive clumps of arbor vitae. Now and then one of the early easterly and northeasterly rainstorms sweeps along our spruce and pine girdled coast, playing havoc on the panicles of late phloxes and the host of summer annuals, which up to this time, uninterruptedly constituted the keynotes for the jubilant color-symphony of our gardens. To the most resistable perennials at this advanced season belongs, alongside the tritomas and montbretias, doubtless, *Sedum spectabile*, the best known representative of a plant genus, comprising over one hundred different species. Its usefulness as a border plant and its high value for the planting of rockgardens is unquestioned. Under cover *Sedum spectabile* has proven perfectly hardy as far north as Canada. It prefers an open sunny space and seems to thrive best in a light sandy loam. In Mount Desert Island gardens, amid huge granite ledges, its flat topped, large cymes frequently continue for several weeks to form a perfect sheet of bright pinkish-carmine hues.

I admit we have at present a host of pretty things well adapted for rockeries, especially among small shrubs and vines. Of flowering herbaceous plants for sunny, dry positions, however, few have proven equally resistable during heavy rainfalls and few are equally hardy and in a floral respect nearly, as, or more effective than *Sedum spectabile*.

Richard Rothe

Throw Away the Mole Traps

We talk much about our bird friends and wish them protected, but we often neglect or kill our animal friends. Among these, by far the best, is the mole.

The white grub or "cut worm" is one of the most expensive and destructive pests we have and unless their number can be reduced, they threaten to take the earth. They are the progeny of the June-bug which comes thumping against your windows on summer evenings. They will take possession of a piece of ground and destroy everything on it. Sometimes large patches of corn, in the richest grounds, will be destroyed. They

often infest sod grounds and lawns. You have seen grass lands where the hogs were turned in and they ripped up the sod like torn blankets, to get the grubs which they destroyed by the thousand. Sometimes they get into the nurseries and they never stop to count the cost, but destroy plants by the thousand. One year they killed a thousand dollars' worth of evergreens for me and every year they inflict more or less damage.

THE AVENGER HAS COME

Now, I am ambitious to have one of the finest collections of perennials in the country. I raise thousands of phloxes and am engaged in raising new varieties which are the joy of my life. I noticed that some of my choicest ones were being killed by the grubs. It is next to impossible to dig them out. They would take a row of the best, where the plants were fifty cents apiece; when they killed one, a sort of blind instinct told them to keep right on in the same row, and so plant after plant was destroyed. It would often cost a dollar or two to keep one of these pests. Presently, I noticed those little ridges thrown up which indicated the presence of moles and I said, "Now the avenger has come." You could see how they zigzagged around and caught the destroyers. It is supposed that moles eat the roots of plants. No, they are after grubs and worms. They do not eat the roots at all, but are after the rascals that do and they do love the white grubs. When I came to dig the phloxes, I found grubs in the rows unmolested by moles. The most diligent search failed to find one in the rows where they had made their blind furrows. A friend called on me while I was digging. He saw a mole at work. "Here, quick, dig him out and kill him!" He had the prevailing spirit which says, "Kill him, kill him!"—the spirit which invents mole traps. I said, "No, that little fellow is one of my best friends. He is worth a five dollar bill." Complaint is made against him that he ridges up the lawns and destroys young plants, but he never goes where there are no worms or grubs. First, he prefers white grubs and next, he takes the angle worms.

THE ANGLE WORM A PEST

Now, naturalists may say what they will regarding the angle worm and how much good he does in passing great volumes of earth through his maw, but in the Nebraska prairies, he is one of our worst pests. Our soil is generally light and friable and after he has worked in it a while it becomes like tough and heavy adobe. When dry, your hoe will ring on it as if you were striking a brick-bat. Such land dries out very rapidly and its value is reduced one-half. Whatever good he may do to other soils, please keep him out of ours and when we see the moles after him I say, "sic-em!" Sometimes moles will damage young plants by lifting them up so they dry out, but it does not take long to follow the ridges and tread them down.

In digging the phloxes, I could not see that they had injured the roots any. I noticed several places where the grubs had begun to work and I was fearful of their depredations next year, but lately I have seen ridges which show that their enemy is on their track and they will clear the ground so that it will be safe to plant in the spring. What birds are above ground, the mole is to the hidden enemies in the earth.

C. S. Hammon

Supt. Nebraska Experiment Station, York, Nebraska.

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The flower market

The unsatisfactory state of the flower markets which we have been called upon to report for several weeks back seems to have been confined principally to eastern centers, no very serious reports having thus far been received from points west of Buffalo. There may be one or several causes for this, but the eastern florists with practical unanimity hold the late financial slump wholly responsible and with apparently some good foundations for the belief. We hope that the more hopeful tone which seems to be coming into general

business circles will quickly start a resumption of activity in the flower market. The season is already well along and it is full time that something was doing. As we go to press, on the eve of the first of the season's holidays, it is pleasant to note the stir made by the Thanksgiving Day demand in the local flower market, which seems to be normal in volume although prices are low on many things as compared with last year.

The violet situation

The back of the fancy violet price seems to be effectually broken at last. Year after year as violet houses have multiplied predictions have been freely made that over-supply would soon put an end to the annual inflation of values in the early part of each season, but, somehow, the violet always got the mastery and soared at will during the horse-show and foot-ball period, holding its own, as a rule, until after the holidays. This year the long-expected has come to pass. Horse show and foot-ball days have come and gone without any appreciable inflation of violet values and in all probability we have seen the last of the big prices. It has been contended by many that the aggregate of the violet business for the entire season has been adversely affected by the annual fall boost in prices which, it was claimed, excited wide-spread hostility to the otherwise popular little flower, and that with a more moderate beginning, a steadier demand and better average returns for the season would ensue. We shall have a chance this season to learn just what there is in this theory.

The National Flower Show

The organization of the various sub-committees of the S. A. F. general committee of fifty for the work connected with the National Flower Show to be held in Chicago next November, reads well and gives evidence that the magnitude of the undertaking and its possibilities are realized by those upon whom the responsibilities rest. Active work cannot begin too soon for eleven months is not an over-long time in which to perfect the details of such a project. We call attention with much pleasure to the following editorial note in the Los Angeles, Cal., Times:

"The Society of American Florists have under way the making of a national flower show, to be held in Chicago, in the autumn of 1908. If such an event proves a certainty our State should make a small appropriation for aiding the movement to the end that California may have on hand a creditable exhibit of native plants and flowers, with cones, barks, woods, etc., showing all the horticultural wealth of California so far as native ornamental plant life is concerned. Should the State fail to make the necessary appropriation, the Southern California Horticultural Society should endeavor to raise sufficient funds so that our southland should be well represented. After the dates are permanently determined it would not be a difficult matter to cause some of our showiest natives to flower out of season in case such treatment became necessary."

No doubt the committee will be glad to take advantage of the spirit of cordiality here shown and possibly follow the line of action suggested by adopting some systematic plan for enlisting the co-operation of the various States in making this a truly national affair and altogether the greatest event up to date in American horticulture. Exhibits of sensational interest from our Pacific possessions can probably be secured through the Department of Agriculture at Washington which has on more than one occasion given evidence of its willingness to assist the S. A. F. in work of an educational character.

The Value of Swampy Land

Some years ago the late H. H. Hunnewell sold an out-of-the-way lot of land. It was swampy and considered useless. Probably the main reason for selling was that it was not likely to become part of any land scheme. The family have all bought on the westerly side of the town, and this is on the east. I often felt surprised that he let it slip out of his hands for he had long appreciated the value of peat and was quick to see bargains of this kind. Though wet, it was high enough to be easily drained. There was a small stream which wriggled its way through, blocked here and there with leaves and branches—worse than useless for drainage purposes.

The time came when the new owner wanted to make an ice pond, and was anxious to dispose of his "mud." It was sold to the Hunnewells, and brought almost as much as the price paid for the land. The estate bought over a thousand loads, and it was a good investment.

Nothing is so valuable on dry land as a mixture of this black mud, or peat. What we bought was a very good brand. This swamp was a depression surrounded on all sides except the south by dense woods, and for generations leaves had been deposited here. The "mud" was mainly leafsoil, and this could be plainly seen when breaking it up. It is much better than the tough, leathery stuff that comes from stratified sphagnum moss, which we are familiar with in what stablemen use for box stalls. We had given it a thorough trial—for almost all kinds of planting. It has been used for pot plants—azaleas, acacias, heaths, cytises, chorizemas, and boronias, with excellent results. Tender rhododendrons which are stored in plant cellars and put out in the summer, never made better roots. My seedlings made—most of them—two growths last season, and some set buds, so that the prospects of living to see them bloom—which Mr. Hunnewell doubted—seem brighter. Rhododendrons planted last spring and some of them very large plants—a load for a pair of horses—have all done well. Sometimes as much as two cart loads were used to a plant. They look better this autumn than the plants not moved, which suggests some idea of renewing the soil about the old plants in the beds with "mud." Some large plants, standing in the way of improvements, and moved late last autumn, showed not a sign last spring, of the shift. This peat was used in the planting of evergreens—large and small—last spring, and all have done well. I think it was fortunate we had it on hand; in my opinion it was "mud" which carried all our new planting successfully through the late very dry summer.

The drainage of swamp lands is beginning to have the attention of the Federal Government. It is work for the States and should not be left to the time-wasting methods of the national government. The States fuss about highways; the drainage of swamps is a

larger question, and affects the whole nation materially and physically. It is a question of health as well as national prosperity. We all know it has got to come as population increases, but it is none too soon to commence now. The lands to be reclaimed are among the best, and when drained would become lastingly fertile. Almost all of them are high enough to be drained, and when very low ditching and throwing them into sections or "lands," will still further render them cultivatable. Land so treated is generally dry enough for most, if not all farm crops. In the fen district of Lincolnshire, England, lands of similar composition are treated to a covering of clay marl from nearby pits, and will then grow grass and other grain crops. For asparagus, onions, turnips, and all crops of the cabbage family, there is no better land. Draining and ditching a large area on the Sprague place at Brookline has made good pasture and hay land of land that was only fit for meadow hay, and was unsightly, and unhealthy at best. Nearer home, on the Wellesley College estate areas of low wet land have been improved, and some is now used for growing celery. The Fenway part of the Metropolitan Park System—the most beautiful of all—shows what has been accomplished in the reclamation of unsightly swamp land. The Wellesley Town Park, now in the making, is a strip of land about a mile long. A brook divides it, and low land borders both sides all the way. Surveys have been made and grades given for deepening and widening the brook. It is wonderful what has been accomplished. Boggy land is now good pasture land, and yields no inconsiderable amount of good hay.

It may be excusable that people clear wood land, and cultivate dry easily worked slopes, and leave low lands that need draining. It is easier. The cost of surveys and draining is considerable, but such lands when drained are more reliable than uplands. There is hardly a summer in the east without a dry spell of weather, and every gardener knows he cannot depend on getting crops without a lay of water pipes. A section of this land properly drained, ditched and "landed," could always be depended upon.

Whenever I have crossed the big swamp that lies between Hoboken Heights and Rutherford, New Jersey, I cannot help thinking what an oversight it is and a disgrace to the State that such a valuable piece of land so near a great city should be unused. If the "big guns" at Washington are really in earnest, let them get to work on this, and show to all the States what can be done; there could be no better object lesson, and no better place to show it. If the Hollanders had it in Holland they would not waste much time about it.

J. D. Hatfield

Wellesley, Mass.

A PATENT ON GRAFTING.

Under date of October 29, 1907, the U. S. Patent Office granted to Peter Keiser, of Grafton, Mass., patent No. 869,493, for method of grafting trees, on the following claim:

"The herein described method of grafting consisting of providing a scion, having buds thereon, then tapering one end of the scion longitudinally and laterally, one face of the tapered portion intersecting one of the buds on the scion, then entering the tapered end of the scion in an incision in the end of the stock, the severed face of the bud being in line with the severed bark at one edge of the incision."

Being somewhat skeptical as to the newness of this "invention" we asked Jackson Dawson for his views thereon, which we herewith append:

Editor HORTICULTURE:

Dear Sir:—The gentleman who has applied for this patent undoubtedly thinks he has found out something new. I do not think that it is new to commerce or practical men who have grafted trees and shrubs for years both in this country and abroad. In this country most of the grafting, except in a few cases, has been done to increase our fruit trees and a few ornamentals, but the grafting of evergreens, rhododendrons and ornamentals has been mostly done abroad for many years; in fact, it is only within thirty years that the grafting of evergreens or evergreen shrubs has been done even in a small way in this country, and this only by a few firms, as it was not considered to be a success financially and few firms were willing to risk the time and labor on a subject they knew so little about and which required so much attention.

All grafting, to be successful, is dependent upon the close connection of the two cambium layers and the finer and closer the cuts the more successful the operation, and if one eye can be brought down near the base of the scion to a similar eye on the stock so much the better as there is so much more chance of active growth. Some grafts, of course, need to be kept in close frames and others do equally well in the open if properly covered with wax to keep out air and moisture, but with all there must be a union of the two cambium layers to be successful. Woods themselves never unite; the cambium layers are what do the work. Plants that have been grafted for years, when split downwards, show that although the cambiums unite and grow around them and form a perfect outside appearance the small part of the woody tissue inside is never changed.

Charles Baltet, an eminent French horticulturist, who gave a great part of his life to the study of this subject, mentions thirty or more ways of grafting but all are dependent for their success on the fine connection of the cambium layers. While so many ways of grafting are possible only a few are used in practice, namely the saddle-graft used chiefly for rhododendrons, the side or veneer graft sometimes with a shoulder to hold the graft in place for evergreens, the whip or splice graft together with the tongue graft for small stock such as small apples, pears and others which are used almost entirely by our larger nursery growers who grow hundreds of thousands of fruit trees for the market and generally do all their grafting during

THE FASTIGIATE GINKGO.



Mr. Lonsdale's notes, accompanied with the four illustrations, in HORTICULTURE of Nov. 9th were very interesting to me. The trees near Horticultural Hall are old friends of mine and have been the subject of many debates when viewing them with others. That they are decidedly pyramidal cannot be denied, and this habit is more pronounced than in the more common form.

In considering what is the type, I think we might reasonably decide on that form which is most largely present among seedlings. The illustrations appearing herewith represent specimens the writer is familiar with, and their history is as follows:

They are from 10 to 12 years old, grown from seeds, and only ordinary plants, not having been specially selected. They have not been pruned and I doubt if they were given a trimming at the time of transplanting.

They represent the same form I have seen in thousands of trees in the nursery rows—trees, too, that were originally from the seed beds. Today I know of a row of young trees that will some day be of the same form as these illustrated, as their present appearance predicts this same style.

If this form I speak of is the type, it can readily be seen that as a shade tree it could not be considered especially desirable.

There is one way of treating this tree, however, that makes it very desirable as a shade tree, and that is to prune its leader when young. By this method the tree is forced into a spreading habit.

I am convinced that often the tree is injured when young or pruned, and through this means we come across more of the spreading kinds which, however, I contend are not the type.

WARREN J. CHANDLER.

the winter, storing them in boxes or beds of sand or earth in cool cellars until the spring planting when they are planted in nursery rows deep enough to cover the graft, and at the end of the season the plants are fit for sale, and the cleft graft for all coarse grafting over a large tree such as apples, cherries, plums or other old trees that need renewing, or if needed to try new seedlings to ascertain their value commercially.

For my part I see no sense in a patent on grafting, except in municipal affairs. To patent anything else is only throwing money away.

JACKSON DAWSON,

Supt. Arnold Arboretum.

Jamaica Plain, Mass.

RUST ON CARNATIONS.

Editor of HORTICULTURE:

I have been troubled with rust on my carnations and it seems to be still spreading. Would you kindly tell me the best cure for it and how to use it?

MACK.

It has been our experience with carnation rust that it will run a certain course, and then seem to disap-

pear. The treatment for rust which we use is plenty of fresh air, holding the temperature as evenly as possible, and keeping the plants free from moisture. I should advise picking off only such foliage as is dead, keeping the plants perfectly straightened up and removing all rubbish or litter from the bench which may have been applied as a mulch. By securing good root action and plenty of growth we believe the rust will be, in a short time, overcome.

C. W. Ward's remarks on carnation rust in his book, "The American Carnation," and the treatment of plants affected by rust, is substantiated by our experience, and we believe these remarks cover the situation thoroughly.

WALLACE R. PIERSON.

MOVEMENTS OF GARDENERS.

E. E. Grotling of San Francisco has taken up his residence in Berkeley, Calif.

Alfred Reidenbach of New Britain, Ct., has accepted a position as manager of the Hugh Chesney greenhouses, Farmington, Ct.

EXHIBITION CHRYSANTHEMUMS.

A Paper Read Before the Chrysanthemum Society of America by William Duckham.

The chrysanthemum continues its prosperous and undisturbed march down the wide avenue of popularity. We are a year older; the chrysanthemum also has added another year to its career, but it is not a year older, it is more youthful, and full of vitality, and capable of new and fresher development than it was a year ago. We are distinctly older, and may have some passing twinges in the bones to remind us of that very disturbing fact. The chrysanthemum is fresher and more beautiful and more varied and even a little larger than ever.

The Reason for Popularity.

Wherever flowers are grown the chrysanthemum now has its place and its honor. Its forms seem almost endless and its varieties are bewildering. I am, however, inclined to think that some excellent people entirely miss the real explanation of the great popularity which the flower now enjoys. Permit me to say, with all conviction and earnestness, that the popularity is entirely due to the growing of exhibition varieties. I am convinced that if you were to secure all the flower shop windows on Broadway and fill them with pompons, and with every other variety that grows and flowers at this season, and omit entirely the exhibition varieties, I am convinced, I say, that they would attract no popular attention whatever. I grant that flower lovers of the old-fashioned variety, who worship constantly at Flora's shrine, no matter what she has to display, would view them with pleasure; but the greater public, the press, society, and even "the man in the street" would pass them unnoticed. The splendid position in popular and social esteem now held by the flower is due to that wonderful development from the tiny little parent flower to these massive blooms that now entrance every beholder. If we had here before us the blooms that were exhibited even ten or twelve years ago, even we who know the history of the flower would be dumbfounded at the progress, and, I make bold to say, the end is not yet. The flowers which only the few could produce when the shows first began are now produced by the many and the leaders are more closely pushed by their followers year by year. And, as the blooms increase in size, in finish, in brilliance of color, in decorative quality, so also does the popularity of the chrysanthemum increase. The growing of larger, nobler, more stately flowers, and in greater abundance, this is one sure way of holding the popular favor.

About Cultural Methods.

How shall we do this? We are all learners? If by any fortunate chance you could learn something from my methods, I have no doubt that I could learn from yours. But as you are not speaking at this moment, and I am, I must venture to assume the role of adviser and tell you quite frankly and simply just how I grow my flowers. I do not assert that these methods are the best, I simply say that they have come out of my experience and they seem to serve me well.

And now we come down to the point

of cultivation, which perhaps is the one all important thing in maintaining the interest in the exhibition of chrysanthemums, for without good cultivation no good or large flowers would be seen. Each of us has no doubt his own ideas and ways of doing this, but the following is what I have practiced for some considerable time. I do not say it is the best way—far from it, perhaps—for I realize there are a number of you here who could do all this much better than is possible for me.

I have tried early, medium and late propagating and am frank to say generally the medium early propagation toward the end of February or early in March has given me the best results. It is needless for me to go into detail of the method employed; you all know. But I do claim that as soon as plants are rooted and potted no neglect can be made up. The plants require all the attention it is possible to bestow.

Time to Propagate.

Some of you may say and can produce the very finest flowers from much later propagation. This I am free to admit; so have I produced good flowers from late struck cuttings. In fact some of the best flowers not only in finish, color, etc., but the largest, were from plants propagated in April, but for general acceptance I would prefer the first week of March. I shall omit the general cultivation. Suffice it to say it is impossible to give the young plants too much care and attention in the growing season.

I have grown plants in boxes, in benches and pots; all with about the same result. The best flowers perhaps were grown in the bench divided with strips between each plant confining the roots to a small space, and I found the stronger the growth the better the flowers, especially when the roots were confined to the smallest area. I have always been opposed to large pots or spaces; after all I have observed, I am convinced more than ever, for when feeding time comes you have all live and growing roots where on the other hand if too much space and soil is given, a lot of roots die and the plants consequently suffer.

Taking the Bud.

Now to flowers; first, we must have the bud and to me the bud is quite as important as to have a strong, vigorous plant. This has surprised me more the past year or two and particularly this year—brought about somewhat in my mind by the Australian varieties. I will refer only to crown buds, for I don't know of five varieties, which terminal or even late crowns would win in fast company. The introduction of so many Australian varieties perhaps accounts for this, my experience with varieties of Australian origin being that the buds can be taken much earlier and will develop perfectly, especially if the weather should be warm; if not put the house a few degrees warmer by fire heat and you will find buds that would seem impossible to open will develop perfectly, and what appears at one time a hard core without the slightest semblance of a flower develops finally into a beautiful and well finished bloom.

I have in mind a batch of Nellie Pockett, which showed buds August 1st. It appeared a little early to take them, but if allowed to go on, would in my mind, have been a little late. A part was taken and the result was that no finer Pockett have I ever seen; the other half that was allowed to go on made only medium or second class flowers, although taken August 21st to 24th. This applies to a number of varieties, and I say do not be timid of taking an early bud, especially of varieties of Australian origin, and as I said before it is not always the strongest and most vigorous plant that produces the best and largest flowers, but just as important is the bud taken at the right time.

I would wish it to be distinctly understood I am speaking of exhibition varieties; but at the same time do not think I despise the different types, such as decorative, or commercial, or the beautiful singles, for all are very beautiful and all have their usefulness and are fully as beautiful as the large Japanese, but as I was asked to say or confine my remarks to exhibition varieties, I have for that reason done so. Feeding chrysanthemums is too well understood for me to dwell on; you all have your own way, and it varies but little; I find the chrysanthemum is not very particular what it is fed on, provided it is not fed on the same diet too long; a change is always appreciated and the plant responds and will return many times over, the best care and feed one can bestow upon it.

LOCAL AND FLORISTS' SHOWS.

At the Edgefield, Ga., chrysanthemum show, Robert Berckmans of Augusta officiated as judge.

Tong & Weeks, Ashtabula, Ohio, on November 15 and 16, showed chrysanthemums in great variety.

At Hewitt's Flower Store, Monmouth, Ill., Nov. 4-11, the chrysanthemums attracted many visitors.

Central Park greenhouses, Davenport, Iowa, have been open to the public during the chrysanthemum season.

Park street greenhouses, B. T. Genter, Foxcroft, Me., made an unusually attractive display this season.

A splendid display of chrysanthemums was made by F. E. Blake & Son, Marion, O., on November 8th and 9th.

At Highland Park, Rochester, N. Y., upwards of 100 varieties of chrysanthemums have attracted visitors in throngs.

An attendance of upwards of 4,000 was the gratifying result of the annual show at Jos. Heintz & Sons, Jacksonville, Ill.

At Undercliff, St. Johnsbury, Vt., on Nov. 16, after the flowers had been admired by the public they were all cut and sent among the sick.

H. P. Potter, Wilmington, Del., has opened his greenhouses to the public, with a noteworthy stock in which chrysanthemums lead. Among his carnations is an unnamed variety, a cross between Mrs. Thos. W. Lawson and Queen.

The Horn Bros. at Rittersville, Pa., displayed the products of their 13 houses the past week to hundreds of delighted admirers. Ernest Ashley is another successful grower at Rittersville for whose display the people wait.

PARIS AUTUMN SHOW

On Friday, November 8th, the National Horticultural Society of France opened its great autumn show of chrysanthemums, fruit and vegetables in the two large greenhouses on the Cours la Reine, near the Champs Elysees, Paris. The opening day was as balmy and gentle as early September and thousands of visitors pressed their way towards the show, the crowd at times being so dense that movement round the show, notwithstanding the great space, was slow and tedious.

After the judging was over M. Fallieres, president of the French Republic, paid an official visit. He was escorted round the show by M. Viger, president of the society, M. Abel Chatenay, the secretary, M. A. Truffaut, M. Philippe de Vilmorin and quite a suite of officials and members connected with the society. The jury were entertained to lunch at the Restaurant Levoien at which M. Viger presided there being altogether about 150 guests, and the whole proceedings were of the most cordial and hospitable character. After the show was declared open the band of the 119th Infantry Regiment gave a concert during the afternoon.

The promenade alongside of the Seine leading to the entrance of the first large greenhouse contained numerous beds of chrysanthemums at intervals and many displays of hardy trees, conifers and shrubs, Messrs. Brochet, Lecointe, and Moser and Sons being the principal contributors. Garden accessories in the way of pottery, statuary, greenhouses, etc., were numerous, and in addition there were right and left many exhibits of trained fruit trees in great variety.

The chrysanthemums claim our chief attention and of all the exhibitors Messrs. Vilmorin, Andrieux & Co. must be awarded the palm for their



The Paris Show. General View of One of the Greenhouses.

display was most remarkable and unquestionably the grandest in the show. Immense specimen plants were arranged in a series of geometrical beds each with a grass edging and small pompons in pots as a border. In the middle of the whole was a grass lawn with corner beds filled with dwarf, large-flowered plants and a path around it. In the middle of this lawn was an immense trained specimen of Tokio 8 or 9 feet in diameter.

Another worthy exponent of the art is M. Nonin who has for many years past been noted as a raiser and as a grower of fine exhibition plants. This exhibitor placed his plants in quite an original form. It was in the shape of

a hollow square with entrances near the corners; in the middle was a long rectangular bed with a pathway round it thus enabling visitors to see either from the inside or outside every bloom in the collection. Ami Nonin, Ch. Bacque, Duchesse d'Orleans, Sapho, W. Duckham, Naples, W. R. Church, Roi d'Italie, Embleme Poitevin, Alexis Dessarps, Mr. T. Carrington and Triumphe de Montbrun were only a few of the numerous varieties staged. In the middle bed M. Nonin had some large flowered early Japanese for which certificates were granted.

Somewhat nearer the entrance were several large exhibits of plants in pots from eminent cultivators, who are not content to stage them in one group but often place their collection in two or three different places in the show.

M. Cayron had two immense lots of grafted standards and specimen plants for which he was awarded the Grand Prix d'honneur. Many of the varieties were quite unknown to us being purely French. Facing the entrance was a large group of pot plants from M. G. Magne. Some good flowers were found here including many of the Marquis de Pins' seedlings of the past few years and others.

We wander onward and now for a moment pass into the second large greenhouse, passing several things which we must see again, for anxious friends have directed us to a most conspicuous object which towers above everything in the show. It is a unique floral artistic composition principally of chrysanthemums by M. G. Truffaut, a well known authority on horticultural chemistry. We have seen some artistic groups set up by big trade growers in England but for striking originality never anything to equal this. Let the reader imagine a rectangular grass lawn, in the middle a perfect monument of colossal blooms of chrysanthemum F. S. Valis mingled



The Paris Show. Part of the Vilmorin Exhibit

with autumn foliage, standing from 12 to 15 feet high; at the corners of the lawn four large glass vases filled with H. P. roses; between these at intervals other vases filled with monster chrysanthemums Mrs. Barkley, W. R. Church and others of that type.

The exhibit by M. Dubuisson-Foubert, was another instance of great decorative and artistic ingenuity. A very bold effect was created by the way in which large blooms of F. S. Vallis were set up in a huge central vase. Other vases were filled with big blooms, one of white varieties, another of yellow, another of pink, another of crimson and so on. This exhibit was awarded the prize for the biggest bloom in the show. F. S. Vallis was the variety honored. The prize for the second biggest bloom was awarded to a small exhibitor of only 12 blooms who had a grand Mme. Paolo Radaelli.

Groups of chrysanthemums also came from many other exhibitors which we can only briefly mention by name. Asile de Ville Evrard, Messrs. Cordonnier et fils, M. M. Seveane, Avarre, Ecole d'horticulture St. Nicholas, Rene Oberthur, Alfred Chantrier, M. M. Bezy, L. Leclerc, Bardac, Dolbois, Paul l'Abbe, Doleans, all sent collections of more or less merit.

One of the chief points of interest in a French show is always the classes open to the new seedling raisers. The greatest of these is still a well known man the wide world over, Ernest Calvat. We find his lot arranged on the ground level; the flowers are cut with long stems and are thus directly under the eye of the visitor. About 30 new varieties, five blooms of each in a vase, were staged by this exhibitor who was awarded a Prix d'honneur. The group only narrowly escaped winning the Grand Prix d'honneur, Calvat losing by one vote only. All the blooms were big, solid, massive Japanese of the usual Calvat type, every flower an undistributed novelty. Notes of these must be reserved for a future occasion.

Next to Calvat's lot was a collection from Messrs. Cordonnier et fils. This firm has distributed many good things and in their lot we noticed fine flowerers of many popular varieties. The Marquis de Pins had a pretty display of cut blooms of his new seedlings—they were staged in glass vases effectively arranged on a square green turf lawn, a style much in vogue with exhibitors at this show. There were some fine novelties among them which may form the subject of a few notes later on.

Many of the artistic floral decorations were largely composed of orchids some fine things being set up by La Chaume, the eminent florist of the Rue Royale, and M. Ed Debrie. The collections of orchids were exhibited in two side rooms for the purpose of protection from the outside atmosphere. In passing through we particularly noted the lots staged by M. A. Regnier, M. M. Maron et fils, M. Geo. Magne, M. Beranck who had a grand lot of cattleya, vanda, cypripedium, etc., arranged with palms, ferns and other decorative subjects, M. Le Sueur. The Ecole horticole de Plessis staged some fine crotons fronted with ferns, etc. and there were in both rooms allotted to the orchid display a group of choice foliage and ornamental plants from Messrs. Truffaut in which were Croton Reedii, C. B. Comte, C. Maurice Rivoiro, C. Pres' Demole, Nephrolepis Whitmanii, Anthurium Andreanum, Dracaena Versaillesense, D. Godseffiana, Ixora Dixiana and many more.

In dahlias there were several large exhibits, the leading exhibitors being M. M. Cayeux et Leclerc, who staged three or four big lots of dahlias chiefly of the Cactus kinds although here and there one found decoratives and the old type of show flower. A few noteworthy varieties were, Rene Cayeux, Thuringia, Lucifer, Mirifique Ada, Cinnamon, etc. Another good lot was from M. Brochet, Cactus varieties Firebrand, Radiance, Ruby, Cornucopia, Robt. Sallier and Baden Powell were among the most attractive.

Begonias at the Paris show are usually staged in large numbers. Among the principal exhibitors were Messrs. Vailander Freres. They had a lovely lot arranged in separate colors, both double and single. The blooms were all of large size and consisted of extensive sheets of orange, white, crimson, pink, red, yellow and bluish in striking style. Another exhibitor, M. Billard, staged a daintily arranged group. Cyclamens and primulas were also well represented and in the clematis class M. G. Boucher staged a fine group. Of carnations there were many large groups, M. M. Liveque et fils and M. Beranek and the Ecole Horticole du Blesis having two or three well filled with beautiful flowers. A fine lot of Hydrangea Hortense came from M. Desire Ramelet.

Most visitors to the Paris Show have noticed the fruit and vegetables which are uniformly of a high order of merit. This year's show was no exception to the rule and at the bottom of the flight of steps in the corridor leading to the walk by the Seine Messrs. Vilmorin Andrieux Co.'s exhibition of vegetables was one of the grandest features. It consisted of a border 41 yards long and about 7 or 8 feet in width filled with every conceivable vegetable in a high state of cultivation. Enumeration of the contents would necessitate a catalogue by itself. The pears and apples were staged in the most important exhibits in huge semi-circular pyramids and were a sight not easily forgotten. Grapes when shown by such eminent cultivators as Messrs. Salomon and Messrs. Cordonnier and Sons are fine products of French cultural skill, and besides them M. Whir, Chevillot, David, Masle, Sandron, Pigoche and others entered the lists.

The show remained open for a week and our friends of the National Horticultural Society of France are to be congratulated on the very great success that attended their efforts.

C. HARMAN PAYNE.

PERSONAL.

John Graham, of Ottawa, Ont., is seriously ill with pneumonia.

Mr. and Mrs. Farmer of Patoka, Ill., have returned from their extended wedding tour to Portland, Oregon, and Seattle. Mrs. Farmer was formerly Miss Jennie Spencer of Salem, Ill.

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

BUFFALO, N. Y.—E. C. Brucker, 335-37 Ellicott St.
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MONTREAL, P. Q.—Gabriel Vrengde, 27 Ontario Ave.
NEWPORT, R. I.—David McIntosh, Ledger Road.
MINNEAPOLIS, MINN.—C. N. Ruedinger, 2924 So. Aldrich Ave.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
PITTSBURG, PA.—James Hutchinson, corner Dunmoyle and S. Negley Aves.
TOLEDO, OHIO—J. L. Schiller, 929 Prouty Ave.



The Paris Show. Decorative Exhibit by Ed. Debrie

NEWS OF THE CLUBS AND SOCIETIES.

AMERICAN CIVIC ASSOCIATION.

In support of the merger of the American League for Civic Improvement and the American Park and Outdoor Art Association, as the American Civic Association, President J. Horace McFarland said recently:

"As merged, the American Civic Association has made for itself a position in the forefront of advanced civic improvement effort and has attained a national prominence never possessed or approached by either of the constituent societies.

"For instance, the campaign for Niagara's preservation, conducted by the American Civic Association, under which the power developments representing \$40,000,000 of capital at Niagara have been halted and national legislation controlling the Falls enacted and put in force, required large expenditures, for which the officers of the association pledged themselves personally.

"If ever an end justified an effort, this might be cited as such a case. If the association had done nothing else during the year it would have justified its existence and maintenance. The Niagara campaign has been one of many carried on with increasing success and public support.

"The American Civic Association, since June, 1904, has reached its membership fifty-four times with definite and encouraging literature, mainly the production of experts at the head of its fifteen departments, all serving to unify, foster and advance the widespread movement for civic betterment. Hundreds of newspapers have been glad to receive the clipping-sheet service, and the officers have written thousands of letters to inquiring men, women and communities, thereby fostering the spirit of civic advance."

DETROIT FLORISTS' CLUB.

The members of this club arranged a most creditable exhibit at Harmonie Hall but the attendance outside of the club's membership was small. The most noticeable displays were Robt. Craig & Co., Lula and Garza chrysanthemums; Chicago Carnation Co., Aristocrat; Stevenson Bros., Baltimore, carnation Splendor; E. G. Hill & Co., new roses, Rhea Reid and Mrs. Jardine, and chrysanthemums.

Among local products mention should be made of Thos. Browne's chrysanthemums, Mrs. Swinburne, Timothy Eaton, Golden Chadwick, Maud Dean, Mrs. Weeks, Golden Wedding; John Breitmeyer's Sons, chrysanthemums, Cocos Weddeliana, catleyas, dendrobiums, poinsettias, Lorraine begonias, cypripediums, Farleyense and Whitmanii ferns; Robt. Klage's La Detroit and Kaiserin roses, also double and single violets. Carnations were exhibited by many and comprised good flowers of all the popular varieties. Miesel & Sons displayed cyclamens, baby primroses and Whitmanii ferns. After this truly great exhibit had been thoroughly but amicably criticized the social part was attended to and dancing finished the evening and assisted to start the new day well.

FR. DANZER.

TOLEDO FLORISTS' CLUB.

The chrysanthemum show which was held on November 16 was very successful. It was held for the interest of the public but the craft reaps the benefit. The receipts covered the expenses, which means a good deal for the first attempt.

First honor belongs to the E. G. Hill Co. who sent a fine collection of chrysanthemums of which Joseph Roacher and Sunshine received the most attention. A vase of their new rose, Rhea Reid, was also shown. Ch. Winterich, of Defiance, O., proved that he can grow chrysanthemums as well as cyclamens by a vase of Jeanne Nonin and President Roosevelt arranged with Whitmanii ferns and Mahonia aquifolia. The Chicago Carnation Co. had a choice exhibit of carnations, and the Fostoria Floral Co. displayed some magnificent Golden Gate roses. Among the local growers Mr. Halbich exhibited the best flowers, George Bayer the greatest number, including fine hardy varieties, Henry Miller, Chas. Koelker & Sons, Krueger Bros., Emil Kuhuke, Harry Heini, S. N. Peck and Davis & Magee had plant and flower displays of great merit, the latter showing crotons, dracaenas, Lorraine begonias, etc., in addition to chrysanthemums. John Barrow cared for the outside decoration with his bay and box trees, and the Schoen Floral Co. arranged the handsome window display and an artistic table decoration. Zenobia Floral Co. contributed a wreath and basket and Mrs. C. F. Imoberstag a huge basket about six feet high, the bottom of Latania borbonica and the handle of pink and white chrysanthemums and ribbons.

AMERICAN ROSE SOCIETY.

The American Rose Society has issued certificates of life membership which are very handsome documents worthy of being framed and preserved, and certificates for new roses exhibited as novelties not receiving the society's gold medal but worthy of special notice. To make these certificates more interesting a new seal has been prepared which in design is distinct and original.

The society has now begun its efforts to make ready for the exhibition to be held in Chicago. The show of Ramblers from the west is expected to outshine in quantity anything which has been given to the public. New roses from two or three growers in the east are expected to be of interest to all who are working along this interesting line.

The list of life membership is increasing as one and another drops into line. The society is not very rich, but it is likely to become the head and front of the special associations of cultivated flowers in America.

The executive committee held a meeting to perfect details for the spring exhibition at Chicago, at the Hotel Martinique, New York, on Monday, November 25. There were present Messrs. Robert Simpson, Benj. Hammond, Harry May, F. R. Pierson and Robert Craig.

BENJAMIN HAMMOND, Sec.

THE LANDSCAPE GARDENING CLASSES.

The landscape gardening classes of the Gardeners' and Florists' Club will have their first session at Horticultural Hall, Boston, on Tuesday evening, December 3. We are glad to learn that the interest manifested and the number of students enrolled warrant the formation of two classes—beginners and advanced—and that the class-room study will be reinforced by frequent opportunities for practical field work. The lively interest manifested is very encouraging to the committee, who have labored assiduously on this work.

CLUB AND SOCIETY NOTES.

In the plans to be presented to the legislature for the improvement of the ground and buildings of the New York State Fair Commission, a horticultural building to cover 75,000 square feet is included.

In the Maryland space at the Jamestown Exposition last week notable exhibits of chrysanthemums were made by H. Weber Sons Co., R. Vincent, Jr., & Sons Co., C. W. Rose, Henry Traill, and I. Moss.

The Vermont Horticultural Society will hold its annual meeting in Burlington, December 3, 4. J. Otto Thilow of Drear's, Philadelphia, and Prof. F. A. Waugh of Amherst, Mass., are among the speakers. The Central Vermont, Rutland and Boston and Maine railroads will allow excursion rates.

At the annual meeting of the Huntington (N. Y.) H. and A. Society on November 14, new officers were chosen as follows: President, H. Paulding, Jr.; vice-pres., Chas. Wicks; sec'y, A. H. Funnell, treas., D. Conklin. The death of President Wm. O' Hara occurred during the year. The society has run four years without a debt.

The Utica (N. Y.) Florists' Club held its annual banquet and exhibition on November 12. In carnations Dr. W. A. Rowlands, Wanoka Greenhouses, G. H. Benedict, E. J. Byam, C. F. Seitzer, F. McGowan and C. F. Baker had fine displays. Roses were shown by L. E. Marquisee, L. F. Goodwin, M. Lowery; and there was a generous display of the popular chrysanthemum.

The first flower show given by the Arkansas State Floral Society opened on November 14 in the banquet hall of Hotel Marion, Little Rock. In point of attendance and financially it was a gratifying success.

Poehlmann Bros. Co., H. W. Buckhee and Vestal & Son were the largest exhibitors and prizes in the various chrysanthemum, rose and carnation classes went chiefly to them, being about evenly divided. E. G. Hill Co. were first with 30 white chrysanthemums and N. Smith & Son first with 15 yellow, two varieties.

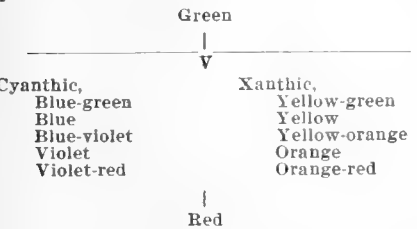
Special awards were made to Peter Reinberg for vase of rose Mrs. Marshall Field, E. G. Hill Co. for rose Rhea Reid, Poehlmann Bros. Co. for roses Cardinal and Mrs. Potter Palmer, C. W. McKellar for orchids, S. Burns and Ed. Marquandt for double violets, Zeck & Mann for collection of chrysanthemums.

Floral Colors

Primitive Colors.

The various colors of flowers are not, as might be supposed, the result of chance, for their existence and further production appear to be the result of, and to follow, certain laws.

There still appears to be some difference of opinion as to what was the primitive color of flowers, supposing that there was only one color in the first flowers. Some maintain that the first color was green, others that it was yellow. There is, however, little doubt that primitive vegetation being composed of flowerless plants was entirely green, the coloring matter of which was, as it is today, chlorophyll. This chlorophyll green is divisible into two other colors, a strongly yellowish green and a distinctly bluish green. To these two pigments the names of Xanthophyll and Cyanophyll have been given, and are generally considered the primary sources of all the various colors exhibited by flowers today, and which may be divided into two classes in the order of their appearance in time:—



Flowers are therefore Cyanthic—that is, capable of varying from blue to red and white, but never yellow or orange; or they may be Xanthic, being able to vary from yellow to red and white, but never blue or violet. This seems to point to the futility of expecting to produce a blue tulip, rose or dahlia; nor, on the other hand, is it likely that we shall ever see a yellow geranium.

Some botanists, however, consider that white was the primary color (leaving out green, as in botany green is not, strictly speaking, a color), but there appears to be little evidence to warrant such a conclusion, at least so far as plants are concerned, although in this connection we must not forget that the combination of all the colors of the spectrum produces white.

That variation in flower-color follows one of the above series is, I think, obvious not only by what has been produced in the way of color by artificial selection and hybridisation, but also—and more so—by what has not been accomplished.

Vegetable Pigments.

Apart from its origin and relation to flowers, color is a subject which is a large and difficult one, comprising as it does its physical, physiological, chemical, and biological sides. The chemistry of the vegetable pigments is especially difficult, and is confronted with the initial difficulty of isolating most of them from other plant-products so that they may be obtained in a state of purity. The biological side is chiefly connected with the question of the inheritance of pigment and the losses and gains of pigment in individual plants which constitute color-variation; and it is here that great con-

fusion exists, for both Mendelists and anti-Mendelists concern themselves very little about the inheritance of pigment, but much about the inheritance of color, which is quite another matter.

Breeding for Color.

All those who have been engaged in hybridising plants, and especially in producing new color varieties, know full well the difficulties and uncertainties which are attached to attempts to breed varieties pure from seed. In spite of present uncertainties, more evidence is being obtained year by year which points to the fact that whatever the color which may be produced it is the result of fixed law, known as the law of heredity, and which is based upon the theory of the continuity of the germ-plasm. At present this law is incapable of being demonstrated in terms on similar lines to that of a chemical formula, that is to say, that point has not yet been reached when by the crossing of two varieties of plants, whether of the same or of different colors, we can be sure of the color or colors which will be exhibited by the offspring.

At the International Conference on Plant Breeding in 1902, Professor William Bateson, M. A., of the University of Cambridge, England, stated, "We have now a clear notion of the meaning of purity or fixity of type and of the consequences of dominance—phenomena which go to make up the daily experience of those who are practically engaged in plant-breeding. Apart from the profounder mysteries, the unravelling of the problems of heredity has now become a matter for statistical research, and we may confidently look forward to the time when the laws of heredity will, in their outward presentations at least, be as the laws of chemistry now are, a matter of everyday knowledge."

An Interesting Lecture.

Professor Bateson is now in this country, and on October 30th, last gave an extremely interesting lecture on *The Inheritance of Color in Animals and Plants*, which may be taken as embodying as far as it went the latest discoveries on Mendelian lines of the laws connected with the subject. The lecture was naturally of a technical character, but, being copiously illustrated by diagrams and lantern slides the latter splendidly reproduced from photographs, was easily followed by a large audience. Practically the lecture was confined to plants, and the photographs from which the slides had been produced were taken, with one or two exceptions, from plants grown by Professor Bateson himself.

Mendel's Discoveries.

He commenced by stating that "The discoveries of Mendel in the middle of the 19th century, when applied to biology in general, prove the inheritance of color to be the most complicated of transmitted characters. Mendel discovered that plants are not simply plants with all their diverse attributes, but that they are composed of elementary factors, which when combined make up their different complicated characters; and also that when the germ cells are formed those complications are analyzed, as it were, by the germ-cells so that the elements are divided among those germ-cells.

Further, that the germ-cells due to the different parent-plants remain separate, and each germ-cell from each parent produced similar cells and no others, in equal numbers. The truth of this rule has received striking confirmation by the discoveries of Mr. Hearst in England when applied to the color of the eyes in man. Blue eyes have the coloring pigment at the back only of the iris; but brown, hazel, or grey have pigment in front as well as behind. Therefore the human eye can as regards color be divided into two classes, those having coloring pigment behind only and those having it both behind and in front of the iris. It is considered that those having no pigment in front are recessive. Broadly speaking, parents with no pigment in front will have children like them."

Experiments with Sweet Peas.

The lecturer then illustrated some experiments with sweet peas. A tall one five feet high had been crossed with a dwarf of only nine inches in height; the resulting progeny were all tall. These tall ones produced in the next generation three of tall to one of short, and, he said, "if these latter are kept pure the tall will always produce tall, and the short will always produce short."

"Albinoism," the Professor said, "is recessive, but albinos on being crossed with colored always gave colored offspring, but if when these colored offspring bred, white ones were produced, these latter if kept pure would breed white indefinitely." The results of a very striking experiment illustrating this point were then shown. Two white sweet peas were crossed, and the result was a purple identical in character with the wild sweet pea of Sicily from which all our garden sweet peas originated. "This," said Professor Bateson, "proves that in one or both of the whites some of the germ-cells of the original wild type continued to exist. On carrying this experiment further I found that breeding from the resulting purple produced nine of all colors, purples and reds, to seven of white."

Some Facts for the Hybridist.

"Thus you cannot tell the composition of a plant by merely looking at it, and experiments on Mendelian lines prove that the surest method of analysis was to conduct a series of breeding experiments, and by this means anyone thinking of hybridising with a view of producing a plant of a special color, should first find out the composition of the color or colors of the proposed parents because, as shown, two or more white sweet peas may have each a different color composition, and the same applies to all colors. In the course of my experiments with sweet peas I have frequently had purely female plants which, as they produced no seed-pods, were continuous bloomers."

Illustrations of breeding from a white *Primula Chinensis* showed practically the same results as those of the sweet peas.

An instance of natural hybridisation was described and illustrated. A hybrid *viola* was discovered which was undoubtedly the result of a cross between a species with a papilionaceous leaf and one with a pedate leaf. The seeds of this hybrid were sown and

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gave rise to plants having leaves which varied in character, but which in the third generation produced only plants having the distinct types of the two original parents. This being another proof of the general rule in Mendelism, that the crossing of two types produce hybrids, these hybrids produce further hybrids, but the latter give a generation which goes back again to the original species. This seems to point to the practical fixity of species and apparently goes to prove the truth of Weismann's theory of the continuity of the germ-plasm.

Professor Bateson concluded his lecture by saying: "I believe we are nearing further and very striking discoveries in these directions, and which will have a very important influence on methods of plant hybridisation, and which will also, I think, throw very considerable—how much it is at present impossible to say—light upon the question of the origin of species."

ARTHUR SMITH.

ORNAMENTAL LEAVES AND GRASSES.

Decision by U. S. General Appraisers.
(T. D. 28481.)

No. 17234.—Ornamental Leaves—Grasses—Protests 269602, etc., of Decorative Plant Company against the assessment of Duty by the collector of customs at the port of New York. Before Board 1, October 31, 1907.

The merchandise, which was classified under paragraph 425, tariff act of 1897, relating to ornamental leaves and grasses, is claimed to be dutiable under paragraph 449 as manufactures of grass or palm leaf, or under section 6 as an unenumerated manufactured article.

McClelland, General Appraiser: The special reports of the appraiser on these protests state:

The merchandise in question marked A on the invoice consists of natural grasses, dyed and prepared, suitable and used for ornamental and decorative purposes.

* * * The only witness called on behalf of the importing company was its manager. It appears from its testimony that the merchandise in question consists of "agrostis," a natural grass dyed (Ex. 1); palm leaves split and dyed to imitate "isolepis grass" (Ex. 2), and "papyrus flowers," a name applied by the shipper to designate this particular article (Ex. 3). It appears from the record that the articles under consideration are subject to no further treatment after importation to make them more ornamental, but are assembled with other materials and used in the condition imported for decorative or ornamental purposes. From the evidence presented we can see no reason for departing from the former rulings of the Board covering merchandise imported by the same company similar in character and use to that here involved. Abstract 15504 (T. D. 28205) and Abstract 16859 (T. D. 28438).

We therefore overrule the protests and affirm the decision of the collector in each case. Note G. A. 5800 (T. D. 25630); Kreshover v. United States (152 Fed. Rep., 485; T. D. 27826), and Herman v. United States (128 Fed. Rep., 420; T. D. 25091).

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CATALOGUES RECEIVED.

California Rose Company, Pomona, Cal.—Autumn and Spring Illustrated and Descriptive Book of Field-Grown Roses.

C. C. Morse & Co., San Francisco, Cal.—Autumn Catalogue for 1907. Seeds, bulbs and plants. Fontispiece of Emperor narcissi.

Lager & Hurrell, Summit, N. J.—Illustrated and descriptive catalogue and price list of Orchids. A very complete and interesting list by these well-known specialists.

Easterly Nursery Co., Inc., Cleveland, Tenn.—Descriptive Catalogue of Fruit and Ornamental Trees. Grapevines, small fruits, shrubs, roses, etc., all have a place on this useful list.

Bay State Nurseries, North Abington, Mass.—Illustrated catalogue of ornamental trees, shrubs, fruit, etc. A handsome volume with abundant half-tones showing the garden favorites at their best. Fully indexed and very useful as a reference book.

S. G. Harris, Rosedale Nurseries, Tarrytown, N. Y.—Descriptive catalogue of choice ornamental nursery stock. Finely illustrated. Also summer supplement to the above, including a list of peonies and various bulbs for fall planting.

Advices from Yokohama indicate an advance of from 15 to 30 per cent. on lily bulbs for next season. The reason for this unusual increase is not plain and it is probable that the crop is affected injuriously in some way. The Azores crops is expected to be normal with prices about as last season.

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THE BROAD OUTLOOK OF THE AGRICULTURAL EXPERIMENT STATIONS.

▲ Paper by Dr. A. C. Truac, Director, U. S. Office of Experiment Stations.

The First Agricultural Experiment Station.

Little more than half a century has passed since "a company of farmers joined themselves together in the little German village of Moeckern, near the city and under the influence of the University of Leipsic, called a chemist to their aid and with later help from government, organized the first agricultural experiment station." Thus was created a special and distinct institution in which scientific research is organized under governmental auspices "as a necessary and permanent branch of agricultural business." For it is the object of the experiment station "to make a regular business of discovery for the use of farming," "to promote agriculture by scientific investigation and experiment," and to diffuse as well as to increase knowledge which improves farm practice and elevates farm life.

The way for such an organization had been made by the earlier researches of such men as Liebig in Germany, Boussingault in France, and Lawes and Gilbert in England, mainly in the domain of what is now termed agricultural chemistry, and with special reference to the preparation and use of commercial fertilizers. By 1851 the time was ripe for a more definite and permanent organization of agricultural research. This was shown by the rapid multiplication of agricultural experiment stations in Europe. By 1866, or within 15 years, 30 stations had been established in several countries.

American Agricultural Research.

In the United States the movement on behalf of agricultural research has a history similar to that of the same movement in Europe. Almost as soon as agricultural teaching was introduced in American colleges, researches in agriculture were begun. This was true at Yale College, where Prof. Norton began to teach agricultural chemistry in 1846, and was followed by Prof. S. W. Johnson in 1856, whose studies and investigation led to the publication of that great textbook, "How Crops Grow," in 1868.

The early agricultural colleges in Michigan, Maryland, Pennsylvania and elsewhere included experimental work in their plans. Thus the early investigations of such men as Johnson, Brenner, Manly, Miles and Hilgard, though carried on as incidental to their main business of teaching, laid the foundation for the American experiment stations. When Congress in 1862 passed the first Morrill, or land grant act, endowing the State agricultural colleges, their experimental work was recognized in the provisions for the purchase of "experimental farms" and annual reports recording any experiments made.

By 1871 the experimental work of these colleges had assumed sufficient importance to warrant extended discussion of it, in a convention of representatives from these institutions, the formulation of plans for conducting experiments in the different States in

accordance with a general scheme, and the appointment of a committee to urge Congress to grant National funds for agricultural experiment stations.

The First American Agricultural Experiment Station.

In 1875, Prof. W. O. Atwater of Wesleyan University, whose death occurred only last week, with the aid of money furnished by Orange Judd, established at Middletown, Conn., the first American agricultural experiment station organized on the German plan. State aid was obtained for this station, and a precedent was thus established for the maintenance of such stations under governmental authority in this country. About the same time, Prof. Hilgard organized a station at the University of California. North Carolina, New Jersey, Wisconsin, Massachusetts, New York, Ohio, Kentucky, Louisiana, Alabama and other States fell in line with this movement, and by 1887 there were 17 stations in 14 States. That year Congress made the enterprise national by the passage of the Hatch Act, and by 1889, 46 stations had been organized in the United States.

Among the men whose work as station directors made possible the nationalization of this movement were Atwater and Johnson in Connecticut, Goessmann in Massachusetts, Stubbs in Louisiana, Cook in New Jersey, Sturtevant in New York, Henry in Wisconsin, Jordan in Maine, and Dabney in North Carolina. These men had scientific training and the scientific spirit. They laid the foundations of the American experiment stations in scientific research and made possible the broad and strong organization of these stations as scientific institutions in close touch with practical workers in agriculture.

The Early Work.

In Massachusetts, the early work of Prof. Goessmann was a very important factor in demonstrating the success of the experiment station as an agency for the promotion of agriculture. Among other things, he organized the first State service for the inspection of fertilizers, and made a practical demonstration of the feasibility of beet-sugar production in the United States. At the outset the work of the stations related chiefly to the composition and use of fertilizers, with some comparatively simple field tests of different crops and feeding experiments with animals. Gradually, however, the scope of their work was enlarged to cover many other agricultural problems.

In the Hatch Act a broad basis was laid for the operations of the American stations by the provision "that it shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals, the diseases to which they are severally subject, with the remedies of the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under the varying series of crops; the capacity of new plants and trees for acclimation; the analysis of soils and water; the chemical com-

position of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States and Territories." Practically, then, the work of our stations may properly cover the entire field of agriculture in the comprehensive modern sense of that term, and with the growth of their resources they are taking in more and more of this territory.

The Broad Outlook.

In considering the broad outlook of the agricultural experiment stations, I therefore invite your attention, first, to the range of their work involved in the term agriculture as the science and art of tilling the soil, and in the minds of very many people agriculture is synonymous with farming. But this is altogether too narrow a view of agriculture.

Comprehensively, agriculture includes whatever relates to the production of plants and animals, which are closely connected with their production. Technically, agriculture may be divided into Plant Production, Animal Production, Agricultural Technology, Rural Engineering, and Rural Economics.

Under Plant Production is included whatever relates to the natural or artificial environments (e. g., climate, soil, water, fertilizers) of useful plants, their structure, composition, culture, harvesting, preservation and uses, and the obstructions to their growth, preservation or use. Plant Production may be subdivided into Agronomy, which deals with what are commonly called field or farm crops; Horticulture, which deals with vegetables, fruits and ornamental plants, especially as grown in gardens, small plantations or parks; and Forestry, which deals with trees and shrubs grown in large tracts.

Animal Production includes whatever relates to the anatomy, physiology, zoological relations, domestication, types and breeds, breeding, feeding, hygiene, management and uses of useful plants. It may also include diseases and other impediments to the production of animals, i. e., Veterinary Medicine, though this is in itself a large and distinct body of knowledge.

Agrotechny includes whatever relates to the conversion of raw materials produced in agriculture into manufactured articles for use in commerce and the arts. It may also include the processes of handling these raw materials in connection with their commercial uses, as in the case of milk and cream sold for consumption. It also involves whatever relates to departure from standards set for manufactured articles, i. e., adulterations and sophistications, in somewhat the same way that the diseases of plants and animals are related to Agronomy and Zootechny. Agrotechny is nat-

urally divided into specialties according to the kinds of materials, e. g., foods and feeding stuffs, liquors, oils, textiles and leather.

Rural Engineering includes those branches of civil and mechanical engineering which relate to the locating, arranging and equipment of farms, and the construction and operation of farm implements and machinery. It embraces the surveying of farms, the location of farm buildings and works, the construction of buildings, water, irrigation, drainage and sewage systems and roads. It also involves the principles of mechanics as applied to farm machinery and the use of different kinds of power for agricultural purposes.

Rural Economics may be more or less broadly defined according to the point of view. It at least includes whatever is related to agriculture considered as a means for the production, preservation and distribution of wealth by the use of land for the growing of plants and animals. It may include the development of agriculture as a business (history of agriculture), as well as the facts and principles of farm management under present conditions.

Thus far the stations have made few investigations in rural economics, and it is doubtful whether they are authorized to do so, but in all the other divisions of agriculture they have done more or less work.

Stations Are Not for Farmers Alone.

Obviously this broad definition of agriculture takes in much more than relates to the occupations and interests of people on what are ordinarily called farms. It includes the forests as well as the gardens, parks, and even the house plants and domestic animals in villages and cities, and thus brings within the purview of the stations interests pertaining to practically all our people. It is in fact a great mistake to suppose that the stations are established solely for the benefit of farmers. Their national support is only to be justified under the general welfare clause of the constitution and on the theory that agriculture, broadly considered, is a fundamental and well-high universal industry.

That the people in a measure realize this is seen in the fact that when the stations or the Department of Agriculture issue publications on subjects relating to poultry or the horse, there seems to be no limit to the demand for them. If an insect attacks the shade trees on your city lot, or a disease blights the carnations in your greenhouse, the begonias in your window box, or the asparagus in your garden, you have just as much right to appeal to the experiment station or the Department of Agriculture for advice and assistance as has the farmer with his 100 acres of potatoes or corn, or the ranchman with his thousands of sheep or cattle.

With their existing financial limitations the stations have very properly given their attention thus far principally to the needs of our large agricultural industries, but they have also done much which is of use to village and city people growing a few plants, and they will undoubtedly enlarge their work in this direction as time goes on and funds increase. The farm-

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ers need have no fear that the stations will forget them or neglect their interests, but should rather rejoice that in the stations they have a powerful agency for bringing city people into closer sympathy with rural people.

Wide Distribution of the Stations.

In the second place, the broad outlook of the agricultural experiment stations is found in their wide geographic distribution. Beginning in Europe and America, they have spread to every continent and many islands. There are now more than 1000 stations and kindred institutions in more than 50 countries. The United States has 60 regular stations and many sub-stations, Germany has 98 stations, France 94, Russia 115, Great Britain 41, Italy 49, Austria 42, Hungary 29, Sweden 37, Belgium 17, Denmark 10, Australia 36, Japan 58, and India 38.

Since 1904, stations or experimental farms have been established in China, Korea, Mexico, Peru, Greece, Servia, French West Africa, Orange River Free State, and the Fiji Islands. Before that time stations were in operation in Algeria, Bulgaria, British West Indies, Cuba, Egypt, Java, Portugal, Spain, Roumania, the Philippines, and many other minor countries and dependencies. In the Eastern Hemisphere there are stations all the way from the 60th parallel of north latitude in Russia, Norway and Sweden, to the Cape of Good Hope and far off New Zealand, and from Ireland to Japan. In the Western Hemisphere they stretch from Rampart, Alaska, on the 66th parallel of north latitude (where barley, rye, oats and wheat have been matured several years in succession) to Santiago, in South America, 34 degrees south of the equator. The north temperate zone is peppered with sta-

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tions, the south temperate zone well dotted with them, and they are here and there in the torrid zone.

The Wide Range of Subjects Dealt With.

These statements are perhaps sufficient to indicate the wide range of subjects with which the stations have to deal. In our own country the work ranges all the way from attempts to grow grain under Arctic conditions, raise grain hay to sell at \$200 a ton in the Copper River Valley, improve the native crab apple and the wild strawberry of Alaska, and aid an enthusiastic horticulturist at Coldfoot, 67 degrees north latitude, grow cucumbers, radishes and other vegetables, to experiments with mangoes, bread fruit, cherimoya, litchi, longan, wi, rubber trees, cacao, coffee, and many other tropical plants in Hawaii, Porto Rico and the Philippines. While many of the stations are organized to work in a general way for the promotion of agriculture in their respective localities, others confine their work to special subjects, the range of which may be indicated by the names given to some of these institutions. Thus we have agronomic stations, animal chemistry stations, bacteriological stations, brewing and distillery stations, cryptogamic laboratories, entomological stations, farm mechanics' stations, fish culture stations, marine zoological stations, moor experiment stations, sericultural stations, and stations exclusively for experiments in the culture of cinchona, cotton, flax, indigol, sugar, tea, or tobacco. If one desires to get a more comprehensive view of the broad outlook of the experiment stations, geographically and topically, he can do so by examining the volumes of the Experiment Station Record, where is reported from month to month the work of the stations throughout the world.

Organization and Functions Are Comprehensive.

Another aspect of the broad outlook of the experiment stations may be seen in the comprehensiveness of their organization and functions. This is especially true of the American stations. Organized primarily as State institutions they have been brought together to form a great national system of agricultural promotion, partly by Federal legislation on their behalf and their consequent relations with the U. S. Department of Agriculture and partly by voluntary union in the Association of American Agricultural Colleges and Experiment Stations.

The Federal legislation gave them a broad and elastic charter, made them strong and permanent institutions, while at the same time it enabled them to undertake a great variety of operations suited to their respective environments, and supplied the funds necessary to make their investigations substantial and far-reaching. This legislation left the responsibility for their management and equipment so largely in the States that their local constituencies have felt the stations belong to them and have exerted themselves more and more strenuously to secure from the State legislatures liberal appropriations for their development. Thus the Federal grants stimulated, rather than repressed,

State pride in the stations and State generosity toward them. The Federal legislation provided for the establishment of the Office of Experiment Stations in the Department of Agriculture as a central agency for the promotion of the interests of the stations. This Office has acted as the guardian of the Federal funds granted to the stations, has contributed largely to the formulation and general adoption of standards of station work, has collected and brought to our stations regular information regarding the progress of agricultural research in other countries, has summarized the results of the work of all our stations and disseminated them throughout the world to investigators, teachers, students and farmers, and has given the stations advice and assistance in very many ways.

The Association of American Agricultural Colleges and Experiment Stations has been the forum for the discussion of numerous questions relating to the management and work of the stations, has represented their interests before Congress and the Executive Departments at Washington, and has united them in many bonds of mutual sympathy and helpfulness.

(To be Continued)

The berry vines, that running thick, told blithesome Summer's story
Lie a tangled maze of brown in heaps of faded glory.
The frosts have tinted forest glade and painted forest dell
And bob-o-link has sung good-bye and robin chirped farewell.
Drags out the old. Wafts in the new. No more the bees are humming,
The earth so gay today is gray, for Winter is a-coming.
—W. CARLETON SMITH.

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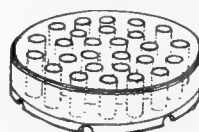
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whose son John passed away on No-
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"The" Wholesale Florists of Philadelphia
STORE OPEN 7.30 a. m. to 8 p. m.

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	Nov. 26		Nov. 25		Nov. 25		Nov. 27	
ROSES								
Am. Beauty, Fancy and Special...	40.00	to 50.00	40.00	to 60.00	20.00	to 35.00	25.00	to 35.00
" Ex. 1a	20.00	to 30.00	30.00	to 45.00	20.00	to 25.00	15.00	to 25.00
" No. 1	15.00	to 18.00	20.00	to 26.00	8.00	to 15.00	10.00	to 15.00
" Lower grades	8.00	to 12.00	8.00	to 15.00	5.00	to 8.00	6.00	to 8.00
Bride, "Maid, Golden Gate, F. & S.	7.00	to 8.00	4.00	to 8.00	6.00	to 8.00	6.00	to 8.00
" " Low. gr.	5.00	to 6.00	2.00	to 4.00	2.00	to 6.00	2.00	to 4.00
Liberty, Richmond, Chat. may F&S	7.00	to 8.00	8.00	to 12.00	6.00	to 10.00	6.00	to 8.00
" " Lower grades	5.00	to 6.00	3.00	to 6.00	2.00	to 6.00	2.00	to 4.00
Killarney, Wellesley, Fan. & Sp.,	7.00	to 10.00	4.00	to 10.00	6.00	to 10.00	6.00	to 8.00
" " Lower grades	5.00	to 6.00	3.00	to 5.00	2.00	to 6.00	2.00	to 4.00
CARNATIONS								
Fancy and Novelties	4.00	to 5.00	3.00	to 6.00	3.00	to 4.00	3.00	to 4.00
Ordinary	3.00	to 4.00	2.00	to 4.00	1.50	to 2.50	2.00	to 3.00
MISCELLANEOUS								
Violets	1.00	to 1.50	.75	to 1.50	.35	to 1.00	.75	to 1.00
Cattleyas	50.00	to 60.00	40.00	to 50.00	50.00	to 60.00	50.00	to 60.00
Lilies	15.00	to 16.00	15.00	to 20.00	12.50	to 15.00	10.00	to 12.00
Lily of the Valley	3.00	to 5.00	3.00	to 5.00	2.00	to 5.00	2.00	to 4.00
Chrysanthemums, Fancy	20.00	to 30.00	25.00	to 45.00	5.00	to 35.00	12.00	to 25.00
" Ordinary	8.00	to 15.00	8.00	to 30.00	10.00	to 12.50	8.00	to 12.00
Adiantum .....	.75	to 1.50	.75	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax	12.00	to 15.00	12.00	to 15.00	12.50	to 15.00	8.00	to 12.00
Asparagus Plumosus, strings	35.00	to 50.00	35.00	to 50.00	35.00	to 75.00	.....	to 50.00
" " & Spre. (100 bchs.)	35.00	to 50.00	30.00	to 50.00	35.00	to 50.00	20.00	to 50.00

H. BAYERSDORFER & CO., 1129 Arch St., Philadelphia, Pa.

A Fine Assortment of ==AZALEAS==

Extra fine lot of **FIREFLY** in bloom from

THANKSGIVING to EASTER

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MAJOR BONNAFFON

The best all 'round Yellow Chrysanthemum. Strong stools,
\$5.00 per 100

W. W. EDGAR CO., Waverley, Mass.

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WINDOW BOXES

are in the minds of every householder at present.

Have You a Good Assortment of Suitable Plants to Show Customers? If not, send at once to Samuel C. Moon, Morrisville, Bucks Co., Pa., for sample order. He furnishes

HARDY EVERGREENS

stocky little plants of

Juniper, Thuja, Retinospora, etc., at \$15.00 per 100; \$2.00 per doz. **Send to-day.** You are losing business by every hour's delay.

SAMUEL C. MOON, MORRISVILLE, PENNA. BUCKS CO.,

FLOWER MARKET REPORTS

Business has started in **BOSTON** first-rate this week, and is satisfactory on all lines. Prices have stiffened up on some of the choicest lines. The improvement came quite suddenly for last week was exceedingly dull. Chrysanthemums are shortening up considerably. Indications are that the Thanksgiving Day demand will be fully up to last year's good record.

Business brightened up **BUFFALO** somewhat, although the past week was not as good as was expected. Stock was not quite so plentiful as week previous, but nevertheless a good portion had to be moved. Very low prices prevailed. Chrysanthemums of first quality sold fairly well, but the poorer quality seemed to hang on with no takers. Roses are of good quality, especially Richmonds, which have never been better, but no high prices ruled. Beauties have not been too plentiful and prices have held steady. Violets in good supply and quality. There is too much lily of the valley to feel comfortable. A good Thanksgiving week's business is looked for.

There is little of special interest to tell concerning the **INDIANAPOLIS** business of the past week. Some have been rather busy decorating for weddings, dinners and teas, while the majority report trade as extremely quiet. Many of the florists are complaining of trouble in making collections. Counter trade is reported considerably below the average for this time of the year. Stock of every kind is coming in sufficient quantity and of good quality. Chrysanthemums are yet to be seen in large numbers but by the end of the coming week the quantities will have considerably diminished. Lilies, orchids, lily of the valley and violets are plentiful and more than equal to demand. Tomlinson Hall market florists report trade as only fair. Of greens the market has a good supply at the usual prices.

The present week **NEW YORK** opened out with a moderate but very gratifying spurt in the wholesale district, but Tuesday's storm interfered with its continuance. It is expected, however, that the week will show a substantial increase over the record of

any previous week in this month, and to this end the Thanksgiving holiday demand will, of course, contribute. All flower stock is of excellent quality. Chrysanthemums are beginning to show the ravages of time and will not, after this week, exert any great influence on the market for other material. Among the signs of the advancing season are stevia, paper-white narcissi, poinsettias and Cypripedium insigne, all of which are abundantly in evidence.

PHILADELPHIA and exceedingly heavy shipments of flowers were the prevailing features of last week's market. Prices were about one half of what they were at this time last year.

Compared with New York and some other centres the writer visited last week, Philadelphia is fortunate. At this writing (Monday) there is quite some activity, and the prospects for the week are cheerful. The football game on Thursday is the star event of the season and there is another affair of the same kind on Saturday which will help violets and red roses, and tone up all the staples. Chrysanthemums are still plentiful, but their heyday is past. Jeanne Nonin and Bonnaffon are very fine just now. Beauty roses are too plentiful, but the quality is extra fine. Teas such as Bridesmaids, Brides and Killarney are away beyond market requirements, strange to say, and notwithstanding these bad conditions, we hear of several instances of salting for Thanksgiving. There are some very smart people in this world. Richmonds have shortened up a little. Carnations cleaned up pretty well and are in a more healthy condition than most lines, although prices rule low like everything else. Beacon, Winsor and Enchantress are the leaders, Winsor especially. Violets sold well last of the week, and prospects are good for the next ten days. Lily of the valley is quite sluggish, but the quality never better.

Detroit reports supply increasing perceptibly but it is bought up as fast as it comes; a most desirable condition indeed, and quite a contrast to conditions in eastern markets as reported.

PHILADELPHIA NOTES.

W. K. Harris, we are glad to report, is again about after a severe spell of pleurisy.

W. J. Moore, of the Pennock forces, is on jury duty, being foreman in the celebrated Bridget Cary case.

Charles H. Grakelow will speak on "The Retailer's position towards the Wholesaler" at the next meeting of the Florists' Club, December 3.

A sale is announced by Freeman & Sons, auctioneers of the Colflesh & Note place at Yeaton, consisting of the greenhouses, contents and 41-2 acres of ground on December 9.

A. B. Cartledge, of Pennock Bros., reports business very encouraging. Although not as brisk this year as last fall he points out that 1906 was one of the most phenomenal seasons ever known in the flower business and it would be unreasonable to expect such another for a long time.

FIRE RECORD.

The greenhouses of W. J. Olds at Union City, Pa. Loss \$2,500, partially insured.

The barn of George Mellen, Springfield, O., was set on fire by tramps who used it for a night's rest. Loss about \$2,000.

Fire was discovered about one o'clock on the morning of November 18 in the heating plant of the St. John greenhouses, Darien, Conn. The front of the house was destroyed.

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Management AMBROSE T. CLEARY

Wholesale Contracting, Jobbing, Auction
HORTICULTURAL PRODUCTS

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Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen.

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WHOLESALE FLORIST
 Finest American Beauties and
 Carnations
51 West 28 St. - NEW YORK

FORD BROTHERS
 48 West 28th Street, NEW YORK
FINE ROSES FANCY CARNATIONS
 A Full Line of All CUT FLOWERS
 Telephone, 3870 or 3871 Madison Square

H. E. FROMENT,
 Wholesale Commission Florist,
 Choice Cut Flowers,
 57 West 28th St., :: NEW YORK.
 Telephones: 2200, 2201, Madison Square.

The Reliable Commission House
 Richmond Roses and Rich Flowers
 of all varieties
JOS. S. FENRICH
 110 W. 28th Street, New York
 Tel. 324-325 Madison Square

Established 1891 BUY FROM SHIP TO TRY **ME**
ALFRED H. LANGJAHR
 All Choice Cut Flowers in Season
 55 West 28th St., New York
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 A full line of Choice Cut Flower stock for all purposes. Comprises every variety
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 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
 CARNEDIAS, DAISIES, ROSES AND CARNATIONS
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 Commission Dealer, Wholesale Buyer and Seller of
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 Open from 5 a. m. to 6 p. m. Sunday till 10 a. m.
 Tel., 5243 and 2921 Madison Sq. Res., 345 J., Newtown.
Finest Lilies in the Market Every Day in the Year.

WHOLESALE COMMISSION FLORIST
J. K. ALLEN 106 W. 28 ST. NEW YORK
 Telephone 167 Madison Sq.
 OPEN 6 A.M. DAILY
 We have a good regular outlet for seasonable flowers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Nov. 23 1907	First Half of week beginning Nov. 25 1907		Last Half of Week ending Nov. 23 1907	First Half of Week beginning Nov. 25 1907
Roses			Carnations, Fancy and Novelties.	1.00 to 2.00	2.00 to 3.00
Am. Beauty, fan and sp.	10.00 to 20.00	20.00 to 25.00	Ordinary .....	..... to .50	..... to 1.00
" extra	8.00 to 12.00	12.00 to 15.00	Violets .....	.25 to .40	.25 to .75
" No. 1	4.00 to 6.00	4.00 to 10.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" Lower grades .....	..... to 1.00	..... to 1.00	Lilies	4.00 to 6.00	4.00 to 10.00
Bride, 'Maid, Golden Gate, fan & sp	.50 to 4.00	2.00 to 6.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
" lwr. grds. ....	..... to .50	..... to .50	Gardenias	10.00 to 15.00	10.00 to 15.00
Liberty, Richmond, fancy & special	.50 to 4.00	2.00 to 6.00	Chrysanthemums, Fancy	10.00 to 15.00	10.00 to 15.00
" lower grades ..	..... to .50	..... to .50	Ordinary	1.00 to 2.00	1.00 to 2.00
Killamey, Wellesley, fan. and spec.	.50 to 4.00	2.00 to 6.00	Adiantum	1.00 to 1.25	1.00 to 1.25
" lower grades.	..... to .50	..... to .50	Smilax	8.00 to 10.00	8.00 to 10.00
			Asparagus Plumosus, strings.	25.00 to 40.00	25.00 to 40.00
			" & Sprea. (100 bchs.)	..... to 15.00	..... to 15.00

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
 Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
 Telephone 356 Madison Square

Edward C. Horan
Wholesale Florist
 55 WEST 28th ST.
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 1463

TRAENDLY & SCHENCK
WHOLESALE FLORISTS
 Furnish best stock at fair prices all the year round Send for quotations on fall orders
 Tel. 798-799 Madison Sq. 44 West 28th Street, New York City

Alexander J. Guttman
THE WHOLESALE FLORIST OF NEW YORK
43 WEST 28th STREET
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HARDY CUT FERNs

Sphagnum Moss, Extra Large Bales, per bale, \$1.25. Fancy and Dagger Ferns our specialty. A trial order will convince you that we ship only first-class stock. Headquarters for Florists' supplies and wire work. All cut flowers in season.

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All 'phone connections

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WHOLESALE FLORISTS

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NEW YORK

Telephone 3559 Madison Sq.

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RECEIVERS & SHIP-
PERS OF CUT
FLOWERS.

CONSIGNMENTS SOLICITED.

Headquarters in Western New York
FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

Wm. F. Kasting Co.

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

**383-87 ELLICOTT ST.
BUFFALO, N. Y.**

Give us a trial. We can please you.

Best Flowers

IN THE

BOSTON MARKET

N. F. McCarthy & Co.

84 Hawley St., BOSTON, MASS.

Send for Prices

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Palms, Large and Small Ferns, etc.

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A First Class Market for all CUT FLOWERS

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WHOLESALE FLORIST

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Tel. 3864 Madison Sq. Shipping Orders Solicited.

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Madison Square.

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Open Now for Consignments of Cut Flowers.

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Tel. 2520 Mad. Sq.

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Cut Flowers on Commission

A Reliable Place to Consign to or order from

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Telegraphic Orders Filled and Delivered.

55-57 West 26th St., New York City.

A. MOLTZ

Will purchase flowers on order in
N. Y. market and ship carefully at
prevailing wholesale prices. Address

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HENRY M. ROBINSON & CO.

WHOLESALE COMMISSION FLORISTS

Finest Grades of Roses, Carnations, Chrysanthemums, Lily of the Valley, Violets, etc.

15 Province St. & 9 Chapman Pl., Boston, Mass.

See our Fern ad.

WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI Nov. 18	DETROIT Nov. 25	BUFFALO Nov. 25	PITTSBURG Nov. 25
ROSES				
Am. Beauty, Fan. and Sp.	..... to 35.00	40.00 to 50.00	35.00 to 40.00	25.00 to 30.00
" Extra	25.00 to 30.00	30.00 to 40.00	15.00 to 20.00	15.00 to 20.00
" No. 1	15.00 to 20.00	20.00 to 30.00	10.00 to 20.00	10.00 to 18.00
" Lower grades	8.00 to 10.00	8.00 to 15.00	6.00 to 8.00	4.00 to 5.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	8.00 to 10.00	6.00 to 10.00	6.00 to 8.00
" Low gr.	3.00 to 4.00	4.00 to 8.00	4.00 to 6.00	2.00 to 4.00
Liberty, Richmond, Chateaux, F&S	6.00 to 8.00	8.00 to 10.00	6.00 to 10.00	10.00 to 12.00
" Lower grades	3.00 to 4.00	4.00 to 8.00	4.00 to 6.00	4.00 to 6.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	6.00 to 10.00	6.00 to 8.00
" Lower grades	3.00 to 4.00	4.00 to 8.00	4.00 to 10.00	..... to 4.00
CARNATIONS				
Fancy and Novelties	..... to 3.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
Ordinary	1.00 to 2.00	2.50 to 3.00	2.00 to 4.00	2.00 to 3.00
MISCELLANEOUS				
Violets	.50 to .75	1.00 to 1.50	.75 to 1.50	.75 to 1.00
Cattleyas	50.00 to 60.00	50.00 to 60.00	..... to 60.00	..... to 60.00
Lilies	12.50 to 15.00	15.00 to 20.00	4.00 to 15.00	13.00 to 15.00
Lily of the Valley	3.00 to 4.00	4.00 to 5.00	3.00 to 5.00	..... to 4.00
Chrysanthemums, Fancy	15.00 to 20.00	20.00 to 25.00	15.00 to 20.00	25.00 to 30.00
" Ordinary	4.00 to 10.00	10.00 to 20.00	5.00 to 15.00	8.00 to 12.50
Adiantum	..... to 1.00	1.00 to 2.00	.50 to 1.00	1.00 to 1.25
Smilax	2.50 to 15.00	12.50 to 15.00	..... to 15.00	15.00 to 18.00
Asparagus Plumosus, strings	40.00 to 50.00	35.00 to 50.00	50.00 to 60.00	35.00 to 50.00
" & Sprea. (100 bchs.)	25.00 to 35.00	20.00 to 50.00	25.00 to 50.00	40.00 to 50.00

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Wholesale Florist

1402 Pine Street, ST. LOUIS, MO.

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Wholesale Dealer in

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White Doves, \$9.00 per doz.
Galax Leaves.

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Wholesale Florists

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545 Liberty St., PITTSBURG, PA.

Long Distance 'Phone 1435 Court.

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122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties
and are dealers in

Glassware Decorative Greens and Florists' Requisites.

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Achyranthes, yellow, 2½-in., 2c.; 3-in., 4½c.
Hammerschmidt & Clark, Medina, Ohio.

ADIANTUMS

Adiantum Hybridum, 2½-in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A Ley & Pro., Highland, Ulster Co., New York.
Snapdragon Queen of the North, 3½-in. pots, in bud and bloom, \$1.00 per 100.
Alonzo J. Bryan, Washington, New Jersey.

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Aquarium plants, the year around. Wholesale and retail. Send for price list.
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Asparagus Sprengeri, 2½-in., 1½c. Fine.
Hammerschmidt & Clark, Medina, Ohio.
Asparagus Sprengeri, field grown, \$4.00 and \$6.00 per 100. C. Winterlich, DeFiance, Ohio.

Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100; \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa.; or, Wm. F. Kasting Co., 385 Ellicott St., Buffalo, N. Y.

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Sales every Tuesday and Friday. If you cannot attend send bids and shipping instructions. Catalogues on application. N. F. McCarthy & Co., 84 Hawley St., Boston.

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W. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.

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Stump & Walter Co., 50 Barclay St., New York.
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Yokohama Nursery Co., 31 Barclay Street, New York.
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Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

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Begonias, flowering; 6 varieties, 3-in., 4½c. Fine for Christmas trade.
Hammerschmidt & Clark, Medina, Ohio.

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BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

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Henry M. Robinson & Co., 15 Province St., Boston.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.

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BUILDING MATERIAL of all description for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

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J. M. Thornburn & Co., 33 Barclay St., New York.
Roman Hyacinths; Bermuda Easter Lilies.
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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
White Roman Hyacinths.
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H. F. Michell Co., Philadelphia.
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H. E. Fiske Seed Co., Faneull Hall Sq., Boston.
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James Vick's Sons, Rochester, N. Y.
Full Bulbs.
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D. Rusconi, 128 W. Sixth St., Cincinnati, O.
Callas, Narcissi, Dutch Bulbs.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Tulips, Hyacinths, Narcissi, Crocuses.
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Seasonable Import Plants and Bulbs.
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John Scheepers & Co., 4 and 6 Old Slip, New York.
Lily of the Valley Excellents.
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Wm. Elliott & Sons, 201 Fulton St., New York.
St. Davids Late-Dug Harrisii.
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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

CARNATIONS

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Chicago Carnation Co., Joliet, Ill.
Carnation Andrew Carnegie.
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The H. Weber & Sons Co., Oakland, Md.
Seedling Carnation Toreador.
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Surplus Carnation plants: Enchantress, Lawson, Queen, Fair Maid, Rose-Pink Enchantress, Victory, etc. For information write Peirce Bros., Waltham, Mass.

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John E. Haines, Bethlehem, Pa.
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CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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A. N. Pierson, Cromwell, Conn.
Chrysanthemum Stock Plants.
For page see List of Advertisers.
Wm. Swayne, Kennett Square, Pa.
Chrysanthemum Stock Plants.
For page see List of Advertisers.

W. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.
Harlowarden Greenhouses, Greenport, N. Y.
For page see List of Advertisers.

October Frost, the best early white Chrysanthemum, strong stock plants, \$1.00 doz. Clementine Tousey, 75c. doz. C. H. Ketcham, N. S. D., South Haven, Mich.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2½ in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums, stock plants, October Frost, Rosiere, 6c.; Monrovia, Tousey, 5c.; Kalb, October Sunshine, Pacific, Lady Harriet, Bonaffon, Alice Byron, Nellie Pocket, Duckham, Perrin, Balfour, Black Hawk, 3c. Cash. Wm. Bierstadt & Son, Springfield, Ill.

COLEUS

Coleus, all kinds, fine, 2½-in., 1½c.
Hammerschmidt & Clark, Medina, Ohio.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Oak Hill Nurseries, Roslindale, Mass.
For page see List of Advertisers.
Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.
Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
For page see List of Advertisers.

We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co., 1129 Arch St., Philadelphia, Pa.
Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 1741 N. 18th St., Philadelphia.
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DAHLIAS

David Herbert & Son, Atco, N. J.
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R. Vincent, Jr. & Sons Co., White Marsh, Md.
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J. L. Moore, Northboro, Mass.
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A. B. Davis & Son, Purcellville, Va.
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DAISIES

The Fernery, 1421 Charles St. N., Baltimore, Md.
New Double Daisy.
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DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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Anton Schultheis, College Point, N. Y.
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ELECTRIC CIRCULATOR

The Castle Company,
170 Summer St., Boston, Mass.
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FERNS

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.
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Godfrey Aschmann, 1012 Ontario St.,
Philadelphia, Pa.
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John Scott, Brooklyn, N. Y.
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FERTILIZERS

Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
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FLORISTS' GREENING PINS

We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228 1-2
Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.
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Koral Mfg. Co., 26 Hawley St., Boston.
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We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

FLORISTS SUPPLIES

H. M. Robinson & Co., 15 Province St. and
9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
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Alex. Mann, Jr., Co., 1125 Polk St., San
Francisco, Calif.
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FLOWERS BY TELEGRAPH

Park Floral Co., Denver, Colo.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Atlanta Floral Co., Atlanta, Ga.
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P. J. Hauswirth, 232 Michigan Ave.,
Chicago.
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William J. Smyth, Michigan Ave. and 31st
St., Chicago.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Thos F. Galvin, 124 Tremont St., Boston.
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Julius A. Zinn, 2 Beacon St., Boston.
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Houghton & Clark, 396 Boylston St.,
Boston.
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Sidney Hoffman, 59-61 Massachusetts Ave.,
Boston.
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J. Breitmeyer's Sons, Miami and Gratiot
Aves., Detroit, Mich.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Wm. L. Rock Flower Co., 1116 Walnut
St., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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Fred C. Weber, 4326-28 Olive St.,
St. Louis, Mo.
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H. G. Eyres, 11 N. Pearl St., Albany, N.Y.
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David Clarke's Sons, 2159-2141 Broadway,
New York.
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W. H. Donohoe, 17 E. 28th St., New York.
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Alex. McConnell, New York.
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A. Warendorff, 1193 Broadway, New York.
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Robert G. Wilson, Fulton St. & Greene
Av., Brooklyn, N. Y.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.
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Finest green and bronze Galax in any
quantity at lowest figures. N. F. Mc-
Carthy, 84 Hawley St., Boston.

We Have It.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin,
New York.
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J. L. Moore, Northboro, Mass.
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E. S. Miller, Wading River, N. Y.
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Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

Augusta gladioli, and white and light.
Rowehl & Granz, Hicksville, L. I., N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury
St., Boston.
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Foley Mfg. Co., between Western Ave. and
26th St., Chicago, Ill.

GLASS, High Grade, Double Thick Green-
house Glass. Lord & Burnham, 1133 Broad-
way, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

GRADING AND PLANTING

D. Robinson's Sons, Revere Beach Park-
way, Everett, Mass.
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**GREENHOUSE BUILDING MATE-
RIAL.**

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset,
Boston.
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King Construction Co., N. Tonawanda,
New York.
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J. C. Moninger Co., 117 East Blackhawk St.,
Chicago, Ill.
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26th St., Chicago, Ill.
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I. Cassidy, 215-21 Randolph Ave., Jersey
City, N. J.
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S. Jacobs & Sons, 1365-79 Flushing Ave.,
Brooklyn, N. Y.
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Metropolitan Material Co., 1398-1408 Metro-
politan Ave., Brooklyn, N. Y.

D. Hiffe, 49 Washington St., N., Boston
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-
Iron Greenhouse, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.

J. A. Payne, 260-274 Culver Ave., Jersey
City, N. J.
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I. Cassidy, 215 to 221 Randolph Ave., Jer-
sey City, N. J.
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Foley Mfg. Co., between Western Ave. and
26th St., Chicago, Ill.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B.
Improved V Shaped Gutter with drip gutter
attachment. Lord & Burnham, 1133
Broadway, N. Y.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
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Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Fancy Ferns.

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A full line of ferns, galax, and all wild
greens. N. F. McCarthy & Co., 84 Haw-
ley St., Boston.

HARDY HERBACEOUS PLANTS

Bay State Nurseries, N. Abington, Mass.
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New England Nurseries, Inc., Bedford,
Mass.

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In writing to Advertisers kindly mention Horticulture

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Payne, 260-274 Culver Ave., Jersey City, N. J.
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Van Meerbeek & Co., Hillegom, Holland.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

HYDRANGEA OTAKSA

Baur Floral Co., Erie, Pa.
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INSECTICIDES.

Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil.
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Carman's Anti-pest.

Perfection Chemical Co., Flushing, N. Y.
W. W. Rawson & Co., 5 Union St., Boston.
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Nicotinide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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IRISES

E. S. Miller, Wading River, N. Y.
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We have 100,000 Japan Irises, the finest collection in this country. Rowehl & Granz, Hicksville, L. I., N. Y.

JAPANA CUT FLOWER HOLDER

M. V. Garney, 130 So. Walola Av., La Grange, Ill. Dept. O.
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We Have Them.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

KENTIAS

A. Leuthy & Co., Roslindale, Mass.
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Bobblink & Atkins, Rutherford, N. J.

LEADING RETAIL FLORISTS

Park Floral Co., Denver, Colo.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.

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Atlanta Floral Co., Atlanta, Ga.
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P. J. Hauswirth, 232 Michigan Ave., Chicago.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Julius A. Zinn, 2 Beacon St., Boston.
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Houghton & Clark, 396 Boylston St., Boston.
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Sidney Hoffman, 59-61 Massachusetts Ave., Boston.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Wm. L. Rock Flower Co., 1116 Walnut St., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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David Clarke's Sons, 2139-2141 Broadway, New York.
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W. H. Donohoe, 17 E. 28th St., New York.
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Alex. McConnell, New York.
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A. Warendorff, 1193 Broadway, New York.
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Robert G. Wilson, Fulton St. and Greene Ave., Brooklyn, N. Y.
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Thomas Young, Jr., New York.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILY OF THE VALLEY

The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Cold Storage.
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LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 12 W. Broadway and 227 Greenwich St., New York.
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MUSHROOM SPAWN

100 lbs. best English, \$6; 250 lbs. at 5½c.; brick prepaid, 22c. J. J. Styer, Concordville, Pa.

NEW AND RARE PLANTS

Rose Hill Nurseries, New Rochelle, N. Y.
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NICO-FUME

Kentucky Tobacco Product Co., Louisville, Ky.

NURSERY STOCK

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
Specimen Pyramidal Box.
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The Conard & Jones Co., West Grove, Pa.
Hardy Stock.
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Bay State Nurseries, N. Abington, Mass.
Herbaceous Perennials, Hardy Ornamental Trees.
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Oak Hill Nurseries, Roslindale, Mass.
Ornamental Nursery Stock.
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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

P. Ouwerkerk, 216 Jane St., Weehawken Heights, N. J.
Holland Nursery Stock for Forcing.
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ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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Jos. A. Manda, 191 Valley Road, W. Orange, N. J.
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Ordenez Bros., Madison, N. J., Box 106.
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OXALIS

E. S. Miller, Wading River, N. Y.
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PALMS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
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Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice pansy plants, 50c. per 100; \$4.00 per 1000. Cash. Aug. Zirngiebel, Needham, Mass.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat, Leaf-Mould, Live Sphagnum moss, Baled Sphagnum moss, Green Clump moss, etc. Jobbers' list on application. C. W. Brownell & Co., Walden, N. Y.

PEONIES

Peonies and Perennials. Send 25 cents in stamps for each of the following: Peony and Phlox Manuals, and The Evergreens. C. S. Harrison's Select Nursery, York, Nebr.

PHOENIX ROEBELINI SEED

Yokohama Nursery Co., 31 Barclay St., New York.
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PIPE AND FITTINGS

Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIVET

Privet Amurensis, all sizes. Write for trade list. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

RAFFIA

Samples free. Large assortment of colors. R. H. Comey Co., Camden, N. J., or, 810-824 Washburn Ave., Chicago.

We Have It.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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Wm. Elliott & Sons, 201 Fulton St., New York.

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ROSES

Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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Julius Roehrs Co., Rutherford, N. J.
Rambler Rose, Newport Fairy.
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Van Meerbeek & Co., Hillegom, Holland.
Dwarf Roses.
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New England Nurseries, Inc., Bedford, Mass.
Roses for Forcing.
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Bobblink & Atkins, Rutherford, N. J.
Roses for Easter Forcing.

Wm. Elliott & Sons, 201 Fulton St.,
Hardy Dwarf Roses.
New York.

Robert Scott & Son, Sharon Hill,
Rose Marie. Jardine.
Del. Co., Pa.

Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Crimson Ramblers, extra strong, 3-yr., for forcing, at 9 cts.. Gilbert Costich, Rochester, N. Y.

Pink and White Maman Cochet and Mrs. Cant, strong, field-grown rose plants, suitable for 6-in. or larger pots, \$7.00 per 100. Cash or C. O. D. John Peterson, Lake George, N. Y.

SEEDS

T. J. Grey Co., 32 So. Market St.,
Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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A. T. Boddington, 342 W. 14th St., N. Y.
Vinca Seed.
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H. F. Michell Co., 1017 Market St., Phila.
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James Vick's Sons, Rochester, N. Y.
Vick's Superb Pansy Seed.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 E. 19th St., New York.
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R. & J. Farquhar & Co., 6-7 So. Market
St., Boston.
Giant Cyclamen Seed.
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C. C. Morse & Co., 48-56 Jackson St.,
San Francisco, Cal.
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H. E. Fiske Seed Co., Faneuil Hall Sq.,
Boston.
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Braslan Seed Growers Co., San Jose Cal.
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O. V. Zangen, Hoboken, N. J.
Cyclamen Seed.
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Antigonon leptopus, per lb. \$1.25; oz. 15c.
Ada J. Brooks, grower, Sorrento, Fla.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. I.

We Have It.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

Sphagnum Moss and Peat, fresh stock; Floral Moss a specialty. Guaranteed to give satisfaction. Write for prices. W. H. Stackhouse, prop., Box 11, Waretown, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hlppard, Youngstown, O.

VEGETABLE PLANTS

Tomatoes for forcing, 2 1-2 in. Comet, \$2.50; Lorillard, \$2.00 per 100. Roney Bros., West Grove, Pa.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.
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John A. Payne, 260-274 Culver Ave., Jersey City, N. J.
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VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

VIOLETS.

Baur Floral Co., Erie, Pa.
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WINTER WINDOW BOXES

Samuel C. Moon, Morrisville, Pa.
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WIRE STAKES

W. W. Coles, Kokomo, Ind.
Galvanized Wire Stakes.
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WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

WHOLESALE FLORISTS**Boston**

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl., Boston.
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Welch Bros., 226 Devonshire St., Boston.
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Buffalo

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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

WANTED—Hustling store manager to take stock in a small company doing good business in small Pennsylvania town; owner's time devoted to greenhouses, need man to take charge of store. Splendid opportunity to right party. Money not needed to run business, but only to insure business being taken care of. Give references. Address Pency, care Horticulture.

SITUATIONS WANTED

SITUATION WANTED by a reliable gardener, good grower of flowers, fruit and vegetables under glass and outside, fully experienced in all branches of work on a well kept private place; single, age 29. Address R., care Horticulture.

SITUATION WANTED by good grower of roses, chrysanthemums and carnations; also good design maker; can furnish good reference. Address P. O. Box 325, Dover, N. H.

SITUATION WANTED by gardener with good record, private place preferred. Married, two children. Address N., care HORTICULTURE.

FOR SALE

FOR SALE—4 Greenhouses, most desirable location in the Newtons; large lot land fronting on two streets, dwelling house of 8 rooms; all flowers sold at door for fancy prices; excellent business, best reasons for selling; price will be made reasonable. Pelkey-Wallace Co., 101 Tremont St., R. 717, Boston.

FOR SALE—One top delivery wagon and one open delivery wagon, suitable for a florist's use; almost new and in good order; also a pair of good delivery horses; the above can be bought at your own price. Ed. Hlgons, 146 West 28th st., New York.

MISCELLANEOUS WANTS

WANTED right away, 150 to 200 ft. of used 4-inch drainage pipe (cast iron standard light), with bell and flange. Must be cheap for cash. Write E. F. Oliver, P. O. Box 143, Avon, Mass.

NEWS NOTES.

G. O. Morey & Co., florists, Haverhill, Mass., have moved to 23 Main street.

The Joy Floral Company, Nashville, Tenn., has applied for a charter of incorporation.

Peter Crowe has accepted the position to serve as one of three commissioners of parks at Utica, N. Y.

J. Marcel Dickinson has secured fifty acres of land and will start in the nursery business at Spencerport, Monroe County, N. Y.

A. E. Kunderd of Kendallville Ind., in looking for a new location for his increasing gladioli and bulb business, and will probably locate in South Bend.

William Lidtko, an employe of Thomas Young at Bound Brook, N. J., 66 years of age, committed suicide by drowning on Monday, November 25.

Work is under way for moving the flower store of Mt. Desert Nurseries, Bar Harbor, Me., across the street, where additions and improvements will be made.

M. E. Ryan, florist, of Middletown, N. Y., while repairing his building, stepped beyond the limits of the roof and fell on a stone wall, badly injuring his shoulder.

One of the humors of the Lenox, Mass., exhibition was the capturing by Mr. Proctor of the Lord & Burnham Co.'s special prize with the product grown in U-Bar houses.

Prizes aggregating more than \$2500 will be offered by the Pasadena Tournament of Roses Association for the most attractive floral displays at Pasadena, Calif., on January 1, 1908.

Nephrolepis superbissima, the new fern of The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y., was awarded a first-class certificate at the Royal Horticultural Society's exhibition, London, November 5.

NEW HEATING APPARATUS.

James Fuller, Bryantville, Mass., new boiler.

Ewoldt Bros., Davenport, Ia., 40 h. p. boiler and boiler-shed.

James Thatcher, Marlboro, N. H., has installed a system of hot water heating in addition to other improvements.

L. H. Seamans, florist, Danbury, Conn., has installed new heating apparatus in his houses which have recently been remodelled.

INCORPORATED.

The Binghamton Seed Co., Binghamton, N. Y., W. B. Cleves, H. H. Evans, N. L. Boyce; capital, \$25,000.

BETWEEN YOU AND ME, What do you think of the Buyers' Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

?

Is Your Name In The Above List? If Not, Why Not?

WHO IS TO BLAME Last week we called on a customer in Hartford, to look over a 40 foot, iron frame, H. & Co. house completed for him in October. The carnations, of course, were a bit backward, being so late in planting. We asked Mr. B. who was to blame for getting the house finished so late. "Well, when Hitchings & Co. were ready to go ahead, we were not. When we were, they were too busy and couldn't, so it hung fire until along in October. No, I am not blaming the builders, but we have learned our lesson. Next time we will start doing things in the fall." This is but a sample of what growers all over the country are bound to be up against if they don't get busy before it is busy time. This advice is specially for you. Write us.

HITCHINGS AND CO.
GREENHOUSE DESIGNERS AND BUILDERS.
 Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.

GREENHOUSES BUILDING AND CONTEMPLATED.

Buffalo, N. Y.—J. Wean, one house.
 Joanna, Pa.—David Beller, house 14 x 30.
 Beaver, Pa.—Thos. Fitzgerald, one house.
 Chester, Pa.—M. Copper, vegetable house.
 Dighton Mass.—Hiram Palmer, one house.
 Stratford, Ct.—J. F. Sexton, one house.
 Westerly, R. I.—J. E. Howard, one house.
 W. Bantam, Ct.—Eugene Small, additions.
 Salem, Mass.—David M. Little, conservatory.
 Raleigh, N. C.—H. Steinmetz, range of houses.
 Amesbury, Mass.—G. W. Patterson, one house.
 Glen Echo, Calif.—C. C. Morse & Co., two houses.
 Jeffersonville, Ind.—F. Anderson, two houses.
 Haverhill, Mass.—W. W. Emerson, conservatory.
 Wequeteouock, R. I.—Miss Sharswood, additions.
 Wilkes Barre, Pa.—Park Commission, one house.
 Fitchburg, Mass.—G. H. Hastings, one house 18x24.
 Petersburg, Va.—Mrs. R. B. Stiles, range of houses.
 W. Brentwood, N. H.—A. E. Bartlett, range of houses.

Ft. Collins, Colo.—Espelin & Warren, four houses, each 20x85.
 Three Rivers, Mich.—Riverside Cemetery Association, house 15x30.



The Greenhouse Boiler

and we had no difficulty in maintaining a temperature of 60° is the testimony of a well known Pennsylvania florist who is using my **GREENHOUSE BOILER**.

Let me quote you prices.

JOHN A. PAYNE,
 Horticultural Architect and Builder.

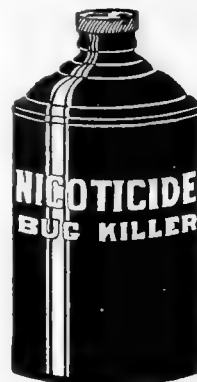
Main Office and Factory:
260-274 Culver Ave., Jersey City, N.J.
 Sash opening apparatus and all kinds of greenhouse structural material.



Cattle Manure In Bags Shredded or Pulverized

Best and safest manure for florists and greenhouse use, absolutely pure, no waste, no danger. Write for circulars and prices.

The Pulverized Manure Co.,
 31 Union Stock Yards, Chicago



The Best Bug Killer and Bloom Saver

For PROOF
 Write to

P. R. Palethorpe Co.
 OWENSBORO, KY.

CARMAN'S ANTIPEST

For the Garden, Orchard and Greenhouse.

Non-poisonous and harmless to vegetation.
 Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests, and keeps down filth. Circulars on application. **\$1.50 per gallon.** Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,
 FLUSHING, N. Y.

Eastern Agents:

W. W. RAWSON & CO., 5 Union St. Boston, Mass.



STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.30
1500 3 1/4 " " 5.25	60 8 " " 3.00
1500 2 1/2 " " 6.00	
1000 3 " " 5.00	HAND MADE
800 3 1/2 " " 5.80	48 9 in. pots in crate \$3.60
500 4 " " 4.50	24 10 " " 4.80
320 5 " " 4.51	24 11 " " 3.60
144 6 " " 3.16	24 12 " " 4.80
	6 16 " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Reiker & Sons, Agts., 31 Barclay St., N. Y. City.

BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

Standard Flower . . POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

W. H. ERNEST,

28th and M Street WASHINGTON D. C.

WILSON'S PLANT OIL

If you want to make money there is only one way. That is to have clean stock and the only way to get it is by using WILSON'S PLANT OIL.

Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants. New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
Yours very truly, GEO. A. SKENE.

Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons. Florham Farms, Madison, N. J., December 8, 1906.
A. HERRINGTON.

PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

ANDREW WILSON, Dept. 8,

SUMMIT, N. J.

Selling Agents for New England, R. & J. FARQUHAR & CO., 6 and 7 South Market St., Boston, Mass.

Standard Plate Glass Company

Manufacturers Importers

American and French Greenhouse Glass

Reliable Brands at Lowest Market Prices

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BOSTON, MASS.



MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. Broadway and
227 Greenwich St.
NEW YORK

I. CASSIDY

Designer and Builder
OF

Iron and Wood Greenhouses

Office and factory, 215 to 221 Randolph Ave.
JERSEY CITY, N. J.

ANCHOR GREENHOUSE HOSE

WEARS WELL.

PLANT BED CLOTH

Protects from Cold and Dampness.

MINERALIZED RUBBER CO.

18 Cliff Street New York

In ordering goods please add, "I saw it in HORTICULTURE."



Holds Glass Firmly
See the Point of
PEERLESS
Glazing Points are the best.
No rights or lefts. Box of
1000 points 15 cts. postpaid.
HENRY A. DEER
714 Chestnut St., Philadelphia, Pa.

The FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 28,000,000 sq. ft. of glass. For particulars address John C. Esler, Sec'y, Saddle River, N. J.

CYPRESS SASH BARS

82 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

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Trademarks and Copyrights

Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO



BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.



Between the All Heart
and the Sun Dried our

Greenhouse Material

cannot be surpassed. Our workmanship also cannot be excelled. When you get a greenhouse from us you can be sure it is up-to-date in all respects, and that it will be a good house for many years.

FOLEY MFG. CO.

Western Avenue
and 26th Street

CHICAGO.

Our visiting friends are heartily welcome to call and see us at our handsome new factory. Transfer from any West Side street car to the S. Western Ave. line and get off at 26th St.



S. JACOBS & SONS

Manufacturers of GULF CYPRESS

GREENHOUSE MATERIAL

Jobbers of

Glass, Boilers, Pipes, Etc.

Catalogue and Prices Upon Request.

1365-1379 Flushing Ave.
BROOKLYN, - NEW YORK

The Electric Circulator

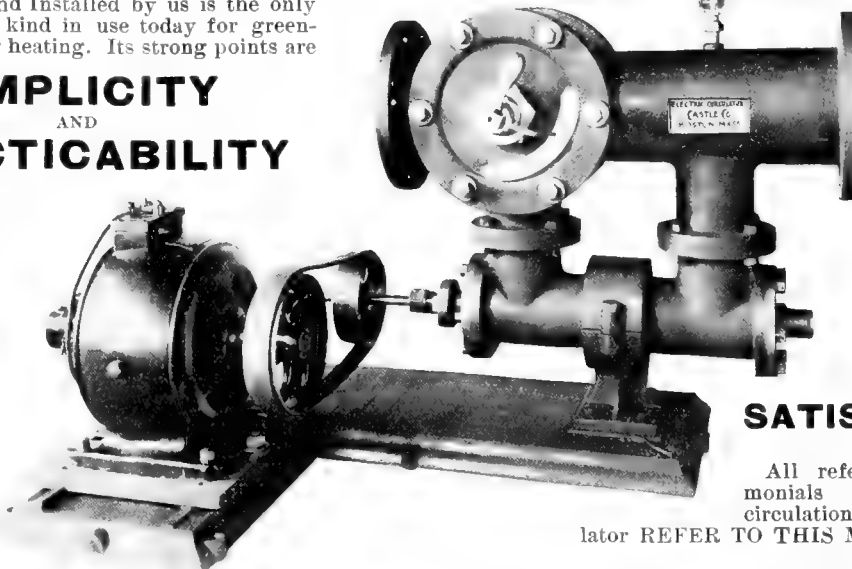
Manufactured and Installed by us is the only machine of its kind in use today for greenhouse hot water heating. Its strong points are

SIMPLICITY AND PRACTICABILITY

It is NOT A THEORY. Its value has been FULLY PROVEN.

DON'T BE MISLED

by so-called "improvements" which exist on PAPER ONLY.



This cut illustrates one and

THE ONLY ONE

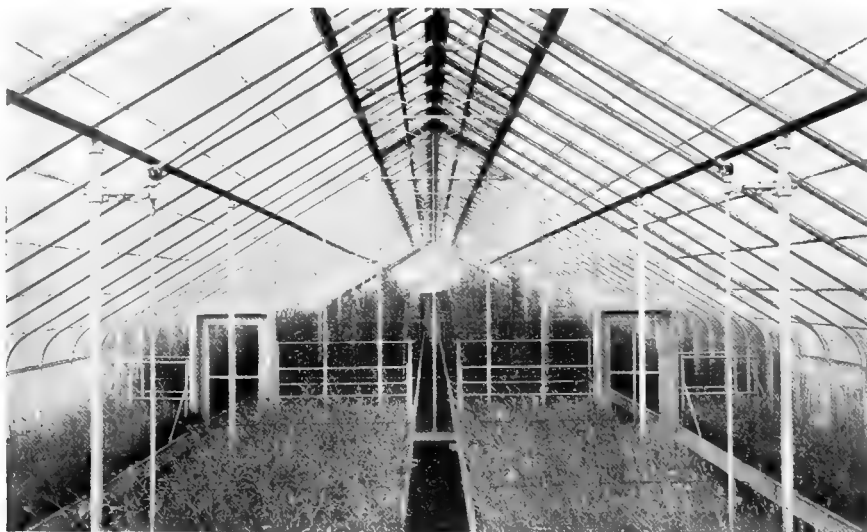
which has ever had a trial thus far. It has been on the market since 1905. It is in use in many of the largest greenhouse establishments, commercial and private, and is

GIVING FULL SATISFACTION

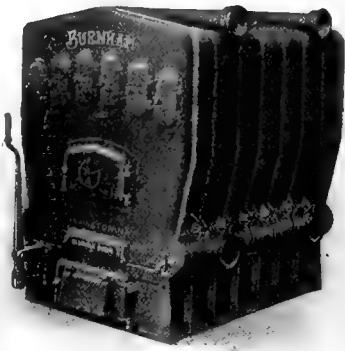
All references and testimonials regarding forced circulation by electric circulator REFER TO THIS MACHINE ONLY.

THE CASTLE COMPANY, 170 Summer Street, Boston

HEATING ENGINEERS



Then there is another highly interesting feature of the U-Bar construction. When you are on the inside you think the house is much wider than it really is. The extreme lightness, the unobstructed freedom is what does it. Mr. Pierson says: "It's just like a bubble of glass" — "a regular Sunshine Shop," and that comes the nearest to describing it. Just make a mental comparison between this interior, with its curved eaves and total absence of heavy members, and any construction used by other builders. Send for the catalog, then send for us. **Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23rd Street, New York.**



What Happened AND ITS MORAL

WAY along last spring before firing was over, we kept pounding you to order then, that "Burnham" boiler you were sure to need the first thing in the fall. There must have been a lot of you chaps who didn't take our advice seriously, for although we just about doubled the number of boilers that were cast last year, when September opened up, we were anywhere from two to three hundred shipments behind, and actual orders coming in about twice as fast as we could ship out. Some of you got kind of hot about it, thought we were "dead slow," or "didn't have any system." Others declared "they would wait until the first of December, and make their old tea-kettles do until then, for they wanted a 'Burnham.'" Now here it is the last of November and we are still shipping at the rate of over 300 per month. Next year will see us with twice the facilities for casting, but we shall do twice the business if former years' experience counts for anything. But instead of waiting until spring to pound you about ordering timely, we are going to begin it now, and keep at it every week or so until you wake up and get in line.

It is the same way with your house. If you want it when you want it, order it long before you want it. Spring will be here before you know it. Send for circulars and catalogs after you have finished your supper to-night. **Lord & Burnham Company**, Greenhouse Designers and Manufacturers, 1133 Broadway, cor. 26th Street, New York. Boston Branch: 819 Tremont Building.

HORTICULTURE

Vol VI.

DECEMBER 7, 1907

No. 23



EXHIBITION OF SOCIETY OF INDIANA FLORISTS
At Conservatories of A. Wiegand & Sons

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

COLD STORAGE LILY of the VALLEY

For Christmas-flowering
CASE OF 2,500 PIPS FOR \$35.00

TULIPS For Bedding and Forcing

We offer below a few of the leading varieties for bedding and forcing of which we have the largest stocks

FOR COMPLETE LIST OF VARIETIES, SEND FOR SURPLUS LIST.

SINGLE EARLY TULIPS

Artus. An extra fine scarlet for bedding; also good forcer. \$1.25 per 100, \$11.00 per 1000.
Bizard Verdict. 75c. per 100, \$6.00 per 1000.
Cardinal's Hat. \$1.00 per 100, \$8.00 per 1000.
Chrysolora. \$1.00 per 100, \$7.50 per 1000.
Cottage Maid. \$1.25 per 100, \$10.00 per 1000.
Couleur Ponceau. \$1.00 per 100, \$7.50 per 1000.
Duchesse de Parma. \$1.25 per 100, \$10 per 1000.
La Reine. \$1.00 per 100, \$8.00 per 1000.
L'Immaculee. 80c. per 100, \$6.50 per 1000.
Yellow Prince. \$1.00 per 100, \$8.50 per 1000.

SINGLE LATE TULIPS

Byblooms. \$1.00 per 100, \$9.00 per 1000.
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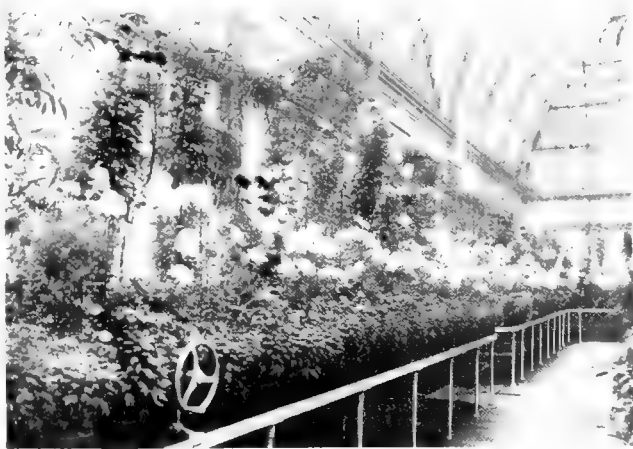
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The Chrysanthemum in Decorative Use

Our frontispiece shows how attractively a greenhouse and its promiscuous contents may be used for the setting of a chrysanthemum show. An equally pleasing general effect in the ordinary exhibition hall, with its various individual groups bearing no relationship in contents or contour, one to another, is almost impossible. The illustrations on this page from photographs taken in the greenhouses at Central

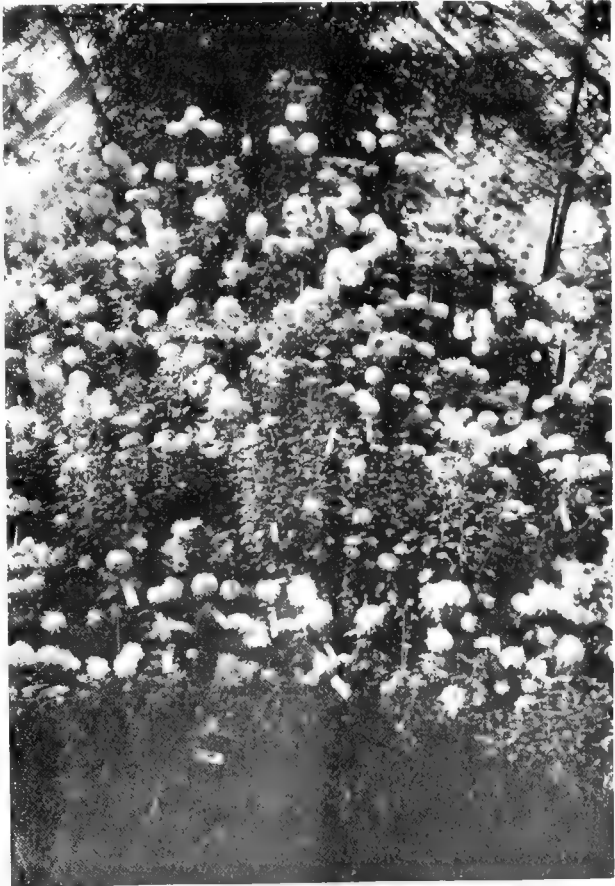


CHRYSANTHEMUMS AT CENTRAL PARK, NEW YORK.

Park, New York, during the recent chrysanthemum display there, are equally suggestive of the characteristics in which most of our exhibitions are conspicuously lacking. These pictures will not particularly interest the grower of chrysanthemums for cut flower purposes nor would they serve any purpose in a "scale of points" committee's rambles, but for the artistic eye of the decorator who tries for broad effects

and seeks fitness and balance in form and color they will be found full of suggestiveness. We have taken occasion in preceding issues to suggest to our readers where we believe they may find the missing key to a better public appreciation of our exhibitions, by making appeal through harmonious decorative use of the material at command rather than exclusively through "scale of points" rivalry with indi-

vidual blooms. This is only possible through a free use of naturally-grown masses, singles, and pompons. Tables of specimen blooms are all right and indispensable as a feature, but as the whole show they carry less and less weight with the public each year. We have shown the people the way of *producing* flowers; let us now show them how we can *use* them.



CHRYSANTHEMUMS AT CENTRAL PARK, NEW YORK.

Dahlias In France

I was going to head my few notes "French Dahlias," but remembered that many of those I saw in France were not purely of French origin but were raised in other countries. In spite of our long autumn without frost it is only fair to say that early November is not the period at which the dahlia may be expected to be seen in its highest state of development and yet whenever it has been my privilege to visit that country it has always struck me that as a show flower the culture of the dahlia is far behind that generally practiced in Great Britain.

Some day perhaps France will have its "Dahlia Society," but it is not the country of special societies and it was many years before the French ever thought of starting a Chrysanthemum Society. Since they have done so the popular autumn flower has advanced by leaps and bounds and the blooms now shown there are as fine or nearly so as the very best in a first-class English show. Nowhere in Europe can such a show be found as that held every year in Paris, which was described and illustrated in last week's HORTICULTURE, and in spite of having the charge levelled at me of a want of patriotism I do not hesitate to make the assertion.

But it is the dahlia that occupies attention for the present. In the point of view of setting up the flowers our English raisers adopt a much more effective and to my mind artistic method of staging their blooms. They are usually set up on long tables with the bunches of flowers in flat kind of pyramids or else in tasteful groups on the ground in branched bamboo supports and vases. The French, on the other hand, generally place them on the ground level in beds. The blooms are placed in bottles with a base of light powdery material resembling soil or else of moss. They are sometimes set up in big banks of bloom but the colors are all intermingled and no great decorative effect is obtained.

Individually the blooms are poor, denoting no special intensive culture and are often staged with huge undeveloped green eyes that would of a certainty ensure their banishment from any leading English dahlia show. I have seen this season at Cannell's and at our autumn show fine examples of the big decorative and peony-flowered varieties in grand form; without exaggeration I should think Souvenir de Gustave Dawson measured close on a foot across at Cannell's and yet a fortnight later I saw some blooms in an exhibit at the Paris show not five inches across. So, too, with the cactus dahlia. Of the old show and fancy type not many are seen for they, like the old incurved chrysanthemum, are too stiff and formal in appearance to please the French taste. Pompons—perhaps for the same reason, although smaller—are less frequent than cactus.

Taking large decorative varieties my notes include among the best, Jeanne Charmet, Reine Emma, Beatrice, Prest, Vermoell and Mme. Van den Daele, while the cactus although extremely numerous only find mention of the following kinds as noteworthy examples: Rene Cayeux, Thuringia, Lucifer, Cinnamon, Mirifique Ada, Robt. Sallier, Firebrand, Radiance, Cornucopia, Ruby, Baden Powell, Florence, Prince of Yellows, Rev'd Williamson, Butterfly, Norfolk Hero, Eva, Dainty, Coronation, Loyalty, Winsome, Mrs. Rooney, Sweet Nell and Osprey.

Chasman Payne

San Jose Scale

Although the San Jose Scale is well known to many horticulturists, it is a subject of so much universal importance that I feel justified in writing a few lines regarding it.

The San Jose Scale was imported to America about 1879. It is a native of northern China, although its origin was somewhat of a speculation until 1901-2. The scale was introduced into California and first found in a town which bears the same name. It was not until 1893 that it was thought to be a very serious pest; at this time, it was found in Virginia. These infested trees were bought from a nursery whose stock came from California. Investigations were now begun in earnest and in less than four years, its presence was noted in twenty States east of the Mississippi River.

The San Jose Scale (*Aspidiotus perniciosus*) has been called by several different names. (1) The Chinese scale; probably because it is a native of China. (2) The Pernicious Scale; Professor J. H. Comstock, the discoverer of the scale said, "it was the most pernicious scale" known to him. (3) The San Jose Scale; because it was first discovered in the vicinity of the City of San Jose. This latter is the common name it generally goes by.

THE LIFE HISTORY

The life history of the scale is particularly interesting. The young insects which are born alive are provided with legs, thus enabling them to crawl out from beneath the scale under which they were born and search for a place to settle. This takes a very short time. At this stage they are so small that it is difficult to see them without the aid of a strong glass or microscope. They are yellow in color while in this stage of development.

When they have selected a suitable place, they begin to work their sucking tubes (which are remarkably long for the size of the scale) into the bark, leaf or fruit wherever they have situated and begin to suck the sap from the tree. The insect now loses all power of locomotion and the scale is slowly formed over its back. At first, this scale is composed merely of a waxy secretion which exudes from the back of the young insect. As the insect beneath the scale grows, it molts or sheds its skin and this forms another layer to the scale itself. As this becomes older, it turns to a distinctly darker color, due to the weather and the addition of the molted skin from the insect beneath it.

It is very easy to distinguish between the male and female insect. The former makes a scale which is oval or elongated in form, while the latter makes a circular one. Although the female loses her legs, wings and eyes, she retains her sucking tube and still continues to suck the sap from the tree and all her vitality is given up to producing young. The male insect is not so hopelessly fastened beneath its scale, but soon develops very small lace-like wings, legs, two pair of eyes and feelers or antennae. The male insect lives but a short time and takes no food.

To show how rapidly the female multiplies, I will give the following quotation from Dr. H. T. Fernald's bulletin on the "San Jose Scale." Dr. Fernald states "that estimates on this point show that an average of 1,608,040,200 females would be produced from a single female in one season, with probably at least an equal number of males, a total starting from a single female of 3,216,080,400 individuals!" It is very fortunate that all of these do not reach maturity, for a great many are

killed by the winter and accidents, etc. The young and immature insects are generally killed by the winter so that only the half to two-thirds of the insects grown are to be found in the spring.

THE APPEARANCE OF THE SCALE

One of the most important requisites in combating the scale successfully, is the ability to recognize its appearance before it is too late to save the infested trees. This can only be done by a careful and thorough inspection; looking especially at the two to four-year-old wood. Another favorite habitat of the scale is at the base of the buds. At the rings, caused by the growth of the trees, they are also very apt to be found. On the smooth bark their existence causes reddish spots. If the tree is very badly infested, it will look as if ashes had been thrown upon the branches, giving them a grayish color. Many times the scales are so numerous that they are found piled up on top of each other. If the scales are lifted carefully with the point of a knife, the insects will be seen beneath them. Upon pressing them, a yellowish fluid oozes out, providing the insect is alive.

TREATMENT

After discovering that the San Jose Scale is present, the question of how to get rid of it, comes up. This in itself is a good subject for a long discourse, but I shall only attempt to give the results of others, who have devoted much, if not all their time to this important subject. The universal remedy is the application of the lime and sulphur spray. Dr. H. T. Fernald of the Massachusetts Experiment Station advocates the following:

Lime, 22 pounds; sulphur, 20 pounds; water, 50 gallons.

Mr. Franklin Sherman of the North Carolina Experiment Station considers the following formula very satisfactory:

Stone lime, 15 pounds; sulphur (flowers), 15 pounds; water (to make), 50 gallons.

These sprays should be put on just before the buds swell in the spring. This spray is not only destructive to this particular scale, but is a tonic to the tree and will kill the other scales, oyster shell, scurvy, etc.

There is a commercial spray called "Scaleside" put up by B. G. Pratt Company, 11 Broadway, New York, which seems to do good work. This is recommended more for small orchards as its cost is greater than the regular Lime-Sulphur spray, but does away with the boiling process, which is always a source of inconvenience. This mixture should be applied in the late fall.

There are several parasites which prey upon this scale and also a "Two Stabbed Lady Bug." This latter has done good work in California, but it is not wholly successful in Massachusetts. The orchardist must bear in mind that spraying his orchard simply once, will not free it from this national pest, but if he does good conscientious work each year, the San Jose Scale, while it will never probably be a thing of the past, will cause him no serious loss.

Roses Under Glass

LIQUID FERTILIZERS

Plants which are being carried over a second year should now be in a condition to thoroughly enjoy a stimulant either in liquid form, or as a top dressing of good mulch. Of all the kinds of liquid feeding, there is, perhaps, none safer or more effective than that made from fresh cow manure; certainly none is in more general use. It contains all the elements necessary for the purpose, and in safe proportions, being practically free from the caustic properties so prevalent in most of the prepared chemical foods.

It is advisable to have two tanks for the preparation of this liquid. The use of one is frequently attended by choking of the pipes and faucets, a condition, which is, to say the least, a nuisance, and productive of exceeding bad temper among the men. The manure should be placed in one of the tanks with water sufficiently heated to cause speedy fermentation when the liquid should be drained into the other tank and diluted to the strength required. By the addition of sheep or hen manure, results may be more quickly obtained, but the nature of these results will be governed entirely by the knowledge and judgment displayed in the admixture of these powerful stimulants.

For the first applications the liquid should be rather weak, until the plants have become accustomed to this class of food when the strength may be increased in proportion as results warrant. Indiscriminate use of liquid food sours the soil and eventually leads to disaster, whereas, if properly handled, it will materially aid in producing a good cut of high-grade flowers.

Ammonia and nitrate of soda can, during certain stages of growth, be employed with benefit to the stock, especially in hastening the development of a tardy crop, but, as these stimulants are very powerful and immediate in their effects, the solution for a first application should be very weak, one pound of either to 100 gallons of water being quite strong enough. The time when roses can use liquid manure to best advantage is when the young growths for a succeeding crop have attained a length of two or three inches. An application should be given at least once a week until the buds are well developed and begin to show color, when feeding should be discontinued.

During the short days of winter, when the hours of sunshine are comparatively few, root action becomes sluggish, vitality low, and the plants generally seem inclined to obey nature's call for rest. Any check to the growth at this period will inevitably result in trouble, and while much may be gained by the use of strong stimulants a weak solution applied more frequently is less risky than strong doses. Careful watching to ascertain the wants of the plants, and to supply these at the proper time is one of the principal duties of the grower, and the ability which he displays in this connection will be reflected in the quantity and quality of the flowers throughout the season. Unhealthy, weak, or mistreated stock is unable to use food in this form, and if applied, it will augment rather than diminish any troubles the plants may be suffering from.

S. S. Rogers.

Spreckles, Cal.

J. E. Simpson

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among the horticultural trades a very different and more sanguine sentiment than was in existence two weeks ago. Should the tightness of money induce the hitherto lavish spenders for holiday gifts to turn from diamonds and costly furs to plants and flowers as a more economical expenditure, as has been suggested by one or two New York florists, it will be an illustration of the truth that it is "an ill winde that bloweth no man to good." However, the prospects are sufficiently encouraging in every respect to warrant every florist in making preparation for a holiday trade equal to if not greater than that which he enjoyed last year.

Give the birds a chance

The notes appearing in this issue regarding the recent investigation of the relation of the birds to the fruit industry of California and the conclusions reached will be read with delight by our friends who have been convinced all along that reckless and uncontrolled bird slaughter is one of the chief causes of the enormous losses suffered every year through insect ravages and the overwhelming spread of weed pests. De Montaigne, over three hundred years ago said, "Let us a little permit Nature to take her own way; she better understands her own affairs than we." In the wanton destruction of birds and small wild animals, the laying waste of forests and other interferences that modify and obstruct the operations of Nature, thoughtful observers have long discerned the presage of evil days to come. That these apprehensions are no longer limited to a few but are becoming wide-spread is one of the most cheering signs of the times. We are glad the awakening has come.

Preparing for the holiday trade

The coming weeks belong essentially to the florist. The nurseryman and others interested in outdoor material have come to the close of their operations, garden bulb trade is over and the seedsman's principal employment for a while will be the preparation of the catalogues for the coming season but the florist now faces his busiest time, his largest responsibility in the course of the whole year. What to do in the way of preparation, how far to go in the line of investment in holiday material and what are the best sources of supply are questions that call for careful thought. No better means of enlightenment on these problems can be found than is provided in the advertising columns of a journal such as HORTICULTURE. However useful and instructive the reading columns may be it is yet true that the quality and trend of advancement are most distinctly reflected in the business advertisements of the progressive houses thus represented. Read the advertisements carefully. By so doing you will benefit the man behind the advertisement, you will benefit HORTICULTURE and, last but not least, you will materially enlighten and benefit yourself.

An incurable case

Our contentions but nevertheless esteemed friend, the editor of the Florists' Exchange, seizes upon the controversy over the alleged renaming of *Hydrangea arborescens* var. *sterilis* as "Hydrangea

Business conditions are encouraging According to reports in trans-atlantic journals a quite general business depression is prevalent in Great Britain, so we are not alone in our recent experiences. It is to be hoped that the trouble will be as short-lived with our English cousins as the "bankers' panic" promises to be in our case. Every indication at the present time is favorable for uninterrupted industrial progress and we find

arborescens alba grandiflora" by the E. G. Hill Company, as a pretext for one of his periodic scolds at the "ex-secretary of the national society who is also editor of our Boston contemporary" (accent on the last five words). In his eagerness as a critic he amuses us by falling, as often before, into the very pit which he had dug for the other fellow. In this instance, in the course of a half page discourse, in his issue of Nov. 30, 1907, he says:

"The Messrs. Hill, as well as the Secretary of the S. A. F. O. H., would, too, have found the hydrangea in question fully described by William Falconer in The Florists' Exchange of August 14, 1904, and also would there have learned that it was then being propagated by James Semple, florist, Avalon, Pa."

He repeats further along:

"The evidence proves conclusively that the plant in question had already been named and described in Bailey's cyclopedia, as well as subsequently in this journal."

Unfortunately our friend overlooks the issue of the Florists' Exchange of July 21, 1906—two years later than Mr. Falconer's alleged full description—where on page 70 may be found a picture of the shrub in question with this inscription under it "*Hydrangea Arborescens Alba Grandiflora*—The Snowball Hydrangea"! We have on a previous occasion, felt it to be our duty to remind our contemporary of the risk incurred by people who live in glass houses and persist in throwing stones but "what's the use"? It begins to look like an incurable case.

British Horticulture

THE PREMIER HORTICULTURAL SOCIETY.

An attractive list of fixtures has been arranged for next year by the Royal Horticultural Society, which continues to make steady progress, and to enlarge the number of its supporters. The first important show is the spring exhibition at the Temple Gardens, on May 26, 27 and 28. The great summer show takes place on July 7 and 8, in the grounds of Holland House, Kensington, that charming oasis amongst London's crowded acres. The National Carnation Society has secured the large hall for their exhibition on July 22, whilst two days later the National Sweet Pea Society will hold its show there. The National Rose show has again decided to use the hall for its autumn show in September. The Winter Flowering Carnation Society is migrating from the Royal Botanic Society's gardens at Regent Park to the hall which is certainly more accessible than the first named place. There is to be a show of British fruit on October 15 and 16, whilst displays of colonial fruit and vegetables, will be seen on March 5 and 6, June 11, 12, and November 26 and 27. Bottled British fruits, home-dried fruits and preserved British vegetables will be exhibited on November 26 and 27. With this list of fixtures it will be seen that the society fills a very important place in British horticulture, and is doing its utmost to foster every phase of gardening. This work is being supplemented by the recent operations at the society's gardens at Wisley in Surrey, where trials and researches are con-

ducted of illimitable value. One interesting characteristic is the generous help which is afforded the society in its extensive operations by the nursery trade, as well as to leading amateurs. This united effort has been one of the factors of the gratifying success achieved.

THE MASTERS MEMORIAL.

A representative committee of Fellows of the Royal Horticultural Society has been appointed in connection with a proposal made to found a suitable memorial to the late Dr. Masters, for many years the editor of the "Gardeners' Chronicle." It is suggested that "Masters Memorial Lectures," on the application of science to horticulture should be founded by public subscription. The sum of £1,000 (pounds) is required to carry out the scheme, and a satisfactory start has already been made, several of the leading horticulturalists having forwarded subscriptions to the Rev. W. Wilks, secretary of the Royal Horticultural Society.

COMMERCIAL FLOWER CULTURE.

The mildness of the early winter has caused the flower market to be well supplied with bloom. Chrysanthemums, of course, have been seen in tremendous quantities and large consignments have been marketed which must have proved unremunerative to the growers. Amongst the varieties in the cut bloom section seen at Covent garden, the well known Market Red and Wm. Holmes are in favor in the dark flowered section. Moneymaker is found to be one of the most profitable whites, and it is being well grown by a number of florists. The yellow and bronze-flowered varieties of Soleil d'Octobre are generally in demand. Other favorites are Mansfield Pink, Souvée d'Or, La Triumphants, and Lizzie Adcock. Amongst the pot plants the following chrysanthemums have lately made a good show on the trade stands at Covent garden market: Caprice du Printemps, Kathleen Thompson, Boule de Neige, White Ivory, Mrs. Wingfield, Ryecroft Glory, and Soleil d'Octobre. Ericas have been seen in variety from the leading growers and these are well flowered, contrary to expectations after the unfavorable weather this summer. Cyclamens make a bright display, as well as Begonia Gloire de Lorraine. As a proof of the popularity of this variety it may be mentioned that one grower has 10,000 plants, all of which, it is expected, will be cleared by Christmas. There is a good sale for small plants in pots, which are found very useful for decorative work. Amongst other subjects which are being handled in the pot plant section are poinsettias, lilliums, bouvardias, veronicas, spiraeas,—including japonica, multiflora, compacta and astilboides,—solanums, etc. Market salesmen complain that trade is somewhat slack, and up to the present the season has not been as good as some former ones, there being a general depression prevalent.

W. H. Adsett.

NEWS OF THE CLUBS AND SOCIETIES.

AMERICAN ROSE SOCIETY.

The Executive Committee of the American Rose Society met pursuant to call at the Hotel Martinique, New York City, on Monday, November 25th, President Robert Simpson in the chair.

Ex-President F. R. Newbold, of Poughkeepsie, N. Y., brought to the Society an invitation to hold a June show in connection with the Horticultural Society of New York at Broux Park, New York city, in June, 1908. There will be various prizes offered at this show, of considerable value. This is a popular show, which it is estimated that thousands of people will visit daily and is a part of the usefulness of the Society planned from the beginning. The invitation was formally accepted and there will be offered medals of the Society to exhibitors.

Mr. August Poehlmann, of Chicago, stated that the secretary of the Florists' Club would report in full to the American Rose Society concerning the action of the Chicago Florists' Club and that Chicago would certainly be glad to have the American Rose Society make the best show both in size and quality that had as yet been made; that Chicago was the Hub of a big wheel, the spokes of which ran in all directions and that the people in the west meant to do their part to make the annual exhibition one which would leave a name behind it as to what Chicago can do.

It was resolved to issue the schedule of prizes of the American Rose Society without delay, so that all contributors to the show may know what is required, at a date early enough for them to make full preparation. The cash premiums for exhibitors at the present time reach the sum of \$700. There are two prizes amounting to \$300 in cash from Philip Breitmeyer and A. T. Boddington for out-door roses; \$25 in cash for the best twenty-five blooms of La Detroit; \$25 from W. A. Manda for the largest and most varied collection of cut roses of all classes, only one bloom in a vase, the variety to count 65 points; The E. G. Hill Co., of Richmond, Ind., offers a prize of \$50 in cash; Alexander Montgomery, of Natick, Mass., a silver cup valued at \$25 for the best fifty blooms of any variety of American origin now in commerce and four other cups were also promised.

The new life membership certificates were authorized to be issued and signed, also certificates of merit for the roses exhibited in Washington, which were as follows: F. H. Kramer, Washington, D. C., for Queen Beatrice; Myers & Samtman, Wyndmoor, Pa., for Wyndmoor; The E. G. Hill Co., Richmond, Ind., for Rhea Reid; M. H. Walsh, Wood's Hole, Mass., four certificates for Paradise, La Flamma, Delight and Juniata.

The following topics have been named to be presented to the convention: "Practical Rose Growing in the Middle West," "The Raising of New

Roses," "What is the Proper Size of a Greenhouse to Grow Roses for Commercial Purposes," "Twelve Best Garden Roses," "Roses in the Far West," "Forcing Roses in Pots for Easter," "Roses from the Retailer's Standpoint." Yours respectfully,

BENJAMIN HAMMOND, Sec'y.

TARRYTOWN HORTICULTURAL SOCIETY.

The regular monthly meeting of the T. H. S. was held on Friday evening, Nov. 29, President Howard Nichols presiding. The monthly prize was won by Howard Nichols with a fine vase of Golden Gate roses. The very able essay on out-door vegetables by President Nichols, winning the Peter Henderson prize at the November exhibition, was read. Mr. James Ballantyne will open a discussion on greenhouse roses at the December meeting. The secretary reported that upwards of \$600 in prize money was won at the November exhibition besides five silver cups, one silver pitcher, and a silver medal. Nomination of officers for the coming year was made, election to be at the December meeting.

D. McFARLANE.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

Cincinnati, Nov. 23rd, No. 74-5-06. Pink, Jap. incurved, exhibited by Nathan Smith & Son, scored 83 points commercial and 86 points exhibition scale.

The variety exhibited by C. H. Totty before the New York Committee Oct. 12th, as No. 20, has been named A. McKendry.

The variety exhibited by Gordon Smirl before the Philadelphia Committee as No. 1 has been named Mrs. Giraud Foster.

DAVID FRASER, Sec.

SOUTHAMPTON HORTICULTURAL SOCIETY.

The second bi-monthly meeting of the Society was held Nov. 25, President Clark in the chair. There were several very interesting discussions, the principal one being the best method of growing dahlias from cuttings. As the Society has outgrown its present meeting room, it was decided to secure Odd Fellows' Hall, in which future meetings will be held. The Society has at present 75 active members.

U. G. AGER.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Chairman Kasting of the National Flower Show Committee has appointed Mr. S. S. Skidelsky as chairman of the travelling representatives of the National Flower Show.

P. J. HAUSWIRTH, Sec.

W. N. Rudd, of Mt. Greenwood, Ill., has been appointed secretary pro tem. WM. J. STEWART, President.

FLORISTS' CLUB OF PHILADELPHIA.

This club has had the wholesalers' point of view before it in the Meehan-McKissick talks recently, and the monthly meeting on the 2nd inst. proved a fitting opportunity for the retailer to have his innings. C. H. Grakelow was the leader of the discussion. The wholesale men came back with good logic, upholding their customers (especially in regard to the fakir trade), and made this hardy perennial subject blossom anew for the benefit of the younger generation. Leo Niessen, Edward Reid, W. H. McKissick, Robert Kift, and many others took part in the discussion.

CLUB AND SOCIETY NOTES.

The program for the annual meeting of the Illinois State Horticultural Society, to be held in Agricultural group, University of Illinois, December 11-13, has been issued, and shows an attractive list of speakers.

At the November meeting of the Omaha Florists' Club, Nebraska, officers for the year were elected as follows: President, J. J. Hess; vice-president, S. Faulkner; secretary, L. Henderson; treasurer, G. Swoboda.

The landscape gardening classes of the Gardeners' and Florists' Club of Boston began work on Tuesday evening, December 3, with a goodly number of pupils. J. K. M. L. Farquhar, on behalf of the committee, made a few introductory remarks, which were received with appreciative applause, and a number of club officials and members were on hand to see the start. The advanced class will be under the instruction of Mr. B. K. Howard and the beginners will be in charge of Mr. D. A. Clarke.

PERSONAL.

We are glad to chronicle the return to health of George Waldbart, Jr., son of Alex. Waldbart of St. Louis.

Peter Bisset, president of the Florists' Club of Washington, who has been seriously sick as result of a nervous breakdown, is up and recuperating. We extend to him our best wishes for an entire recovery.

Louis Boeglin, florist in the Park Department of Minneapolis, will leave New York on the 10th of this month for a two-months' trip to his home in Alsace, where his father still lives. He will also visit some of the important florists in Germany and France, and will probably bring back a nice collection of novelties. At the World's Fair in Paris Mr. Boeglin was in charge of the floral display for the German Government, and was afterwards engaged to do the work at the exhibition in St. Louis, but, after getting there, did not care for it for various reasons, and switched over to the French Government, where he took charge of their bedding.

ORLEANS CHRYSANTHEMUM SHOW.

This interesting old French town, with which the name of the heroic Joan of Arc is inseparably connected, has a horticultural society that was founded as far back as 1839. It has held many exhibitions, the one we visited on November 9 being the eighty-first and was confined to chrysanthemums, flowers, fruit and vegetables. The president, M. Maxime de la Rocheterie, is a well known French lover of horticulture and he also occupies the post of president of the French National Chrysanthemum Society.

These provincial shows of course do not compare with those in the gay capital, either for extent or beauty of arrangement. There are not many places even in France that can boast of so fine a site as Paris for a flower show, but the provincial towns do their best and many of the shows are really attractive. The Orleans show was no exception; it was held in the Salle des Fetes, a commodious building close to the Cathedral, and the townspeople were busy wending their way to the show all the afternoon in that pleasant, happy way in which French people usually conduct themselves when on pleasure bent.

On entering the hall the visitor was struck with the artistic ground plan of the show. The floor space was cut up and divided into a series of shaped beds in which the plants were staged. Spacious paths permitted free circulation of the visitors and every flower was easily visible. M. Maxime de la Rocheterie sent a nice group; M. Montigny—a large exhibitor of novelties—sent another, while M. Ligor-Signeau, who carried off the American gold medal for the best chrysanthemums in the Paris show of 1900, also staged an interesting collection. The other exhibitors were of only local repute.

The names of a few of the best flowers in the show may be of interest to readers of HORTICULTURE. They were Ch. Schwarz, M. Loisseau Rousseau, Marie Liger, Madagascar, Electra, Tokio, Mme. Ed. Roger, W. Tricker, Rouge Poitevin, Souvenir de Petite Amie, Soleil d'Octobre, Embleme Poitevin, LaGracieuse, W. R. Church, Mrs. Coombes, Henri Second, Wm. Falconer, C. Weeks and many others.

Dahlias were also shown, but to an English eye they were poor. There was also an interesting collection of roses. There was a varied and interesting display of ornamental hardy shrubs, conifers and other plants, vegetables and floral decorations.

C. HARMAN PAYNE.

THE DENISON EXHIBITION.

The annual flower show held under the auspices of the Denison (Texas) Civic Improvement League, proved one of the prettiest events ever held in that section. Nathan Smith & Son, Adrian, Mich.; J. W. Vestal & Son, Little Rock, Ark., and J. W. Furrow & Co., Guthrie, Okla., were extensive exhibitors of chrysanthemums of which there was a fine collection. B. A. Donald and Mrs. Joe Fritz, of Denison, and Mrs. C. J. Ralls, of Atoka, Okla., won a very liberal share of the prizes in the amateur class on chrysanthemums. A most interesting fea-

ture of the show was the exhibits of flowers and plants by the public schools of the city, showing a wonderful awakening of interest in the juvenile population of the city. The show, which was held November 20-23, was a thorough success from every point of view and a considerable sum was distributed in prizes.

FLOWER SHOW NEWS.

Los Angeles (Cal.) is planning for a show that shall eclipse anything before attempted. Large prize lists to tempt exhibitors from all sections of the country, and lectures by noted floriculturists are included in their scheme.

The directors of the Arkansas State Floral Society met in Little Rock on November 23. The treasurer's report showed a margin of profit, and it was decided to hold a show next year. New officers were chosen as follows: President, J. J. Mandelbaum; vice-presidents, J. F. Letton and F. Rossner; secretary, G. R. Brown; corresponding secretary, Chas. Vestal; manager, P. M. Palez.

LOCAL AND FLORISTS' SHOWS.

L. B. Lewis, Pontiac, Mich., had what was considered the best flower show in the city on November 21, 22 and 23.

The chrysanthemum show at Waco, Texas, attracted thousands of visitors. Prominent among the commercial exhibitors was Charles H. Meyer.

The exhibit at the greenhouses of John E. Haines, Bethlehem, Pa., has drawn a constantly increasing throng of admirers during its continuance.

The greenhouses of the Niagara Falls Queen Victoria Park, Roderick Cameron, gardener, were opened to the citizens of St. Catherine's on November 26.

An orchid display at South Park Conservatories has been a feature of Thanksgiving week at Buffalo, N. Y. Supt. Cowell's collection includes many rare specimens.

Supt. M. L. Moore, of Walbridge Park, Toledo, O., had only to announce that the chrysanthemums were in condition to be displayed to have the houses overflowing with visitors.

The Bayhouse Floral Co., Boise City, Idaho, under the management of Joseph Pfoser, opened their houses to the public for a view of their 10,000 chrysanthemum blooms on November 20.

The annual flower show at the Woman's Club, Savannah, Ga., on November 19, was the most brilliant affair ever held by them. The local florists made generous displays, A. C. Oelschig & Son, John Wolf, The Savannah Floral Co. and A. W. Richardson being represented.

At a meeting of the board of directors of the Standard Life and Accident Insurance Company of Detroit, L. W. Bowen, general manager of the D. M. Ferry Seed Co., was elected president and D. M. Ferry, Jr., vice-president.

OUR NATIONAL FORESTS.

The area of forest land reserved by the Government was increased during 1907 by 43,000,000 acres, making the total area of the National Forests more than 160,000,000 acres. In fact nearly all the timber land of the unappropriated public domain has now been brought under the administration of the Department of Agriculture. This means that these forests are now being guarded against fire, theft, and wasteful exploitation; and that their power to grow wood and store water will be safeguarded for all time. At the same time their present supply of useful material is open to immediate use wherever needed. Timber is given away in small quantities through free-use permits to actual home makers, and in larger quantities to communities for public purposes. Beyond this is it sold to the highest bidder, but under restrictions which will maintain a lasting supply.

While the primary object of setting aside and protecting these great forests is not to derive Government income but to preserve these great sources of prosperity for the use of this and future generations, it is certainly a source of satisfaction that the income from the National Forests was greater during the past fiscal year than the entire cost of administration. This income amounted to \$1,530,000—twice as much as the income for 1906 and more than twenty times that for 1905.

The National Forests are not only yielding fuel and lumber, but they are grazed under Government regulations and supervision by vast herds of cattle and horses, and flocks of sheep and goats; and under proper management their grazing capacity is rapidly increasing.

That the setting aside of these National Forests is not in the nature of a doubtful experiment is shown by the experience of European nations and proven by the vast expenditures these nations make for the preservation of their forests. Forest lands can be made to grow successive crops of trees just as surely as fields can be made to grow successive crops of wheat, and at the same time they conserve the water supply.

During the years and ages past fires have stripped great areas of Western mountain land of all forest growth. The reforestation of these is a matter of urgent necessity for the conservation of rain and snowfall. Tree planting on a large scale must be resorted to. Millions of seedling trees must be raised. Nurseries have been established, and this work is being pushed with energy. Broadcast sowings of tree seeds on burned-over land have been tried, with prospects for excellent results.—From Report of Secretary of Agriculture, 1907.

PUBLICATIONS RECEIVED.

"Modern Training in Horticulture; A Practical Education Practically Free," is the title of an illustrated pamphlet issued by the Massachusetts Agricultural College, Division of Horticulture. Full particulars are given regarding the various courses of study and practice in fruit growing, flower growing, market gardening, arboriculture and forestry.

Obituary

P. J. Hauswirth.

The sad news comes to us that P. J. Hauswirth of Chicago, secretary of the Society of American Florists and Ornamental Horticulturists, is dead. We

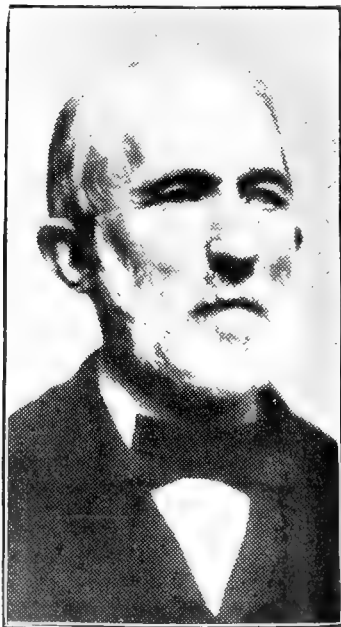


P. J. HAUSWIRTH

know nothing as yet of the circumstances of this blow, which will be a shock to thousands of acquaintances and friends. Our deepest sympathy is extended to the bereaved family.

George E. Davenport.

Strolling with his grandchildren on the afternoon of November 29th through the Middlesex Fells reserva-



GEORGE E. DAVENPORT

tion, which he loved so well, George Edward Davenport, of Medford, Mass., a botanist and scholar who had won a national reputation as a specialist in

the ferns of North America, and who prepared and some years ago presented to the Massachusetts Horticultural Society what is probably the second best herbarium of ferns in this country, was seized with an attack of vertigo, and before help could be summoned dropped to the ground dead. His little grandson, Davenport Jackson, remained beside the body while the other children ran for help.

Mr. Davenport was born in Boston Aug. 3, 1833, and had always lived near his birthplace, residing in several of the suburbs at different times. As a young man he was a great friend of Wendell Phillips and William Lloyd Garrison.

After marriage he began to confine himself to his botanical work, and for years classified new and rare specimens of ferns for Harvard and Yale universities and the Smithsonian Institution at Washington. He was a member of the Medford School Board for eighteen years and was in office at the time of his death. He was a member of the Massachusetts Horticultural Society, the New England Botanical Club, was founder of the Middlesex Field Club and was the author of many botanical and scientific works. In 1898 he was made a fellow of the Academy of Arts and Sciences.

Mr. Davenport was a leading spirit in the agitation for the preservation of the beautiful tract of forest land and expanse of water known as the Middlesex Fells reservation.

His scientific analysis of ferns won for him his greatest distinction, notably in his contributions to the National Herbarium, "The Fern Bulletin," and in a series of monographs on the principal species of ferns in North America. At the time of his death he was at work on what he regarded the great task of his life, a manual of the ferns of North America as well as a less technical work for use in the schools.

James H. Veitch.

The death of James H. Veitch, chronicled by our English contemporaries, is a great loss to the horticultural world. Mr. Veitch died on November 20 after a long illness. His age was but 39 years. Few men have been able to accomplish so much in research and literary work as Mr. Veitch crowded into his short, busy life.

J. M. Gower.

J. M. Gower, employed by O. K. Gerrish's nurseries, Westbrook, Me., died on November 21, aged 66.

Victor Thompson.

Victor Thompson, Austin, Ill., 60 years old, was found dead in his bed on November 24.

BUSINESS CHANGES.

S. J. Turner has purchased the greenhouses of A. Broman, Independence, Mo.

Samuel Stone, of Bangor, Pa., is about to move his greenhouses to South First street.

F. E. Bouton, of Bridgeport, Conn., has removed his entire business to the greenhouses at 408 Warren street.

NEW CHRYSANTHEMUMS.

Nonin's New Earlies.

"I reckon that's the best lot of earlies that ever Nonin sent out," said Mr. W. Wells, the famous English chrysanthemum grower, as he led me towards a large expanse of bright colored early flowering "Mums" in the open ground at his nursery at Merstham. Coming from such an authority it must be considered as being an opinion of no little value for Wells himself is a large raiser of earlies and devotes a considerable area to their culture in the open. He has therefore no object in puffing up another man's goods.

The earliest at Merstham are grown in long rows; not one or two plants of a sort but large numbers of each so that a fair trial can be made. Of Nonin's novelties for 1907 a few notes may be interesting to American growers of this popular section and we may observe that they are mostly free flowering, neat little dwarf plants, a foot or 1-2 ft. high and most suitable for beds and the border. The flowers themselves practically belong to one class, viz, a small reflexing Japanese, a perfect miniature of the larger show type. We notice in some cases a great variation in the color and our excellent guide explains that if the greatest degree of satisfaction is to be obtained from these plants disbudding must, in a measure more or less severe, be practiced. It was curious to notice the difference in the colors of those disbudded and those not disbudded. Some of the crimson grown naturally were dull and pale while those that had had the buds slightly thinned and were allowed to produce their blooms from terminals were several shades brighter and richer. Bronzes and mauves in a like manner are much improved although whites and yellows do not appear to undergo much difference in the intensity of their tones by the treatment mentioned.

Tonkin is a nice neat little flower of a rich golden orange, shaded crimson. Mignon, delicate rosy mauve; nice stiff stems. Hermine, purest white, very robust. Tapis d'Or, a perfect mass of pure golden yellow; so floriferous that disbudding is an absolute necessity. Ernest Daudet, bright orange shaded crimson, large blooms; a very charming variety. Mireille, rather taller than the preceding, it runs to nearly 2 feet in height; good sized flowers, bright rosy mauve. Lumineux, a pretty, neat little Jap; color fiery red, reverse golden. Roi des Jaunes, nearly 3 ft. high, remarkably full, fine shade of pure yellow and blooms of good size. Eden; this grows about 2-2 ft. high; bright rose. Vesuve, chestnut crimson; nice bushy plants. Chatillon, dwarf, salmon on golden ground. Diane, about 3 ft. high, creamy white. Ideal, about 3-1-2 ft. high; October blooms, color rosy white. Venise, 1-2 ft. in height, golden salmon shaded gold on the reverse. Carmen, very pretty, a neat flower, rich reddish carmine; take terminal bud for color. Bouquet Rose, very free, bright rose, centre golden.

Calvat's Novelties.

Calvat's chrysanthemums are always early bloomers and that is the secret

GREENS, BERRIED PLANTS AND OTHER HOLIDAY STOCK

BOXWOOD (Cut Sprays) Indispensable for wreath making and decorative work. Clean, dark green sprays, put up in 50 lb. cases, 15c per lb. **CASE HOLLY**, extra choice, glossy, dark green and well berried, per case \$4 50, in 10 case lots at \$4.00 per case. **HOLLY WREATHS**, made full with plenty of berries and of selected foliage, (packed in cases of about 100) \$15.00 per 100. **LYCOPodium**, from the deep woods, extra color and quality this season, per lb. 8½c.

Also Mistletoe, California Pepper Sprays, Galax, Magnolia, Clump Moss, etc., etc.

SEND FOR PRICE LIST

PLANTS

AUCUBAS, HOLLY TREES, AZALEAS, LORRAINE BEGONIAS, EVERGREENS, ETC. Price list on application.

Present Offerings in Flowers

BEAUTY ROSES, Extra Choice, \$4.00 per doz. VALLEY, Fancy Stock, \$3.00 and \$4.00 per 100.

S. S. PENNOCK-MEEHAN COMPANY "THE" Wholesale Florists of
1608-1620 Ludlow Street - - - - - PHILADELPHIA

of his success for, in the days when he first began, the American seedlings imported into England were invariably late in flowering and while the interest of the growers was keenest Calvat's novelties were well out before the shows. He has had a pretty good run since 1892 and must look out for rivals for in the chrysanthemum world no man has ever remained at the top of the tree without his position being challenged sooner or later. I have just paid a visit to a grower who has the Calvat collection for 1907 in good form. They were described by me last season in my notes of the French shows. Those that are the most promising here are Algerias, Ami Bergeret, Excelda, La Marseillaise, Paul Randet, Leon Truelle, Mme. Vellay Desmesiretz, Roi d'Yvetot.

New Australian Chrysanthemums.

From what I can gather Australian seedlings do far better in America than European-raised varieties, and as I have just visited the new Wells-Pockett collection it may be useful to give a few advance notes:—

Clara Wells.—This is a monster incurved variety of the old florists' show type. The florets are deeply grooved and most regularly incurving, building up a flower of the deepest and most compact form. The color is quite golden yellow, passing to a creamy golden buff towards the base of the flower; a grand acquisition.

Merstham Blush.—A huge Japanese with very long outer florets, twisted and intermingling in the center; color, delicate shade of pale blush.

Pockett's Surprise.—This ought to be one of the best. The blooms are of colossal dimensions, the florets of great breadth and very long, curly at tips, purplish rose; reverse, golden bronze.

C. H. Totty.—A Japanese, deep in build; a compact flower with florets reflexing; golden reddish chestnut, reverse golden; florets of medium width. A rich, warm shade of color that is pleasing to the eye.

W. Luxford.—A large Jap., medium grooved florets; pale, pure canary yellow, somewhat lighter on the reverse, which has a glistening surface.

Mrs. W. Wells.—Another big bloom, medium-sized flat florets; color, golden orange, shaded carmine, golden reverse.

Dorothy Gouldsmith.—A Jap.; very long florets, making a deeply built flower. Florets curly at the top, canary yellow, outer florets shaded bronze.

Messrs. Brumming of Australia have raised some very good kinds and, among their newest, *Romance* is worthy of a note. This is an old style incurve, perfect in build and of great size; a deep rich shade of golden yellow.

Richard Seddon.—Jap.; a beautiful color, a warm golden shade of terra cotta with a fine golden reverse; the florets are of medium width.

Lottie.—Jap.; this has twisted and intermingling florets of great length; the flower as seen was of medium size but very promising; pure golden yellow.

Mrs. Henry Hughes.—A large Jap.; medium sized florets, twisted and curly; color, old rosy amaranth, with reverse of silvery pink; a full double flower of great size and substance.

Golden City.—Incurved; most perfect in form; a deep pure rich yellow.

New Continental Seedling Chrysanthemums.

After a careful comparison of the many new flowers submitted for adjudication at the Paris show, I have come to the conclusion to discard any attempt to rely upon the decisions of the Floral Committee and to judge for myself as to the possible merits of the new French seedlings for 1908. Climate and cultural conditions vary and that English and American growers have had in their testing of novelties.

Mme. Nathalie Langle (Calvat).—A Japanese of great size and substance, very full and double, good floret, pretty shade of maiden's blush.

Marthe Randet (Calvat).—A very big Japanese incurving flower with medium-sized florets, which are deeply grooved, color creamy white.

Barton Pacha (Calvat).—A very deep globular flower, of the Japanese type. Bronzy gold, deeper on the outer side.

Mme. St. Romme (Calvat) This

too, is a very large, deeply-built globular Japanese, with rather broad florets, color very pale blush passing to white towards the centre.

Le Capitole (Calvat).—Japanese Incurved, very narrow grooved florets, but a compactly built flower, very deep in form, yellow, outside shaded bronze.

Vice-Consul Lervin (Calvat).—Japanese not unlike a pale Mrs. W. Wells, in color being of a rather paler shade of warm golden terra cotta.

Comte Grandence Torrielli (Calvat).—A very large Japanese having narrow florets that build up into a big, compact flower; deep golden yellow, shaded outside with purple.

Francois Marchand (Calvat).—A reflexing Japanese of excellent form, rather narrow florets, color old rosy crimson shaded golden.

Souvenir de Vindras (de Pins).—Japanese Incurved with broad grooved florets, a big solid flower, color rosy crimson, reverse golden straw.

Vicomtesse de Chanterac (de Pins).—Another big Japanese with grooved incurving florets, very solid and deep in build. A full and double flower, deep golden orange tinted bronze.

Gene Drude (de Pins).—Large Japanese of the Japanese type, color very fine and effective, deep rich shade of reddish crimson, the florets rather broad, reverse golden yellow.

Pic de Pajolle (de Pins).—A noble, solid-looking flower incurving in form, the florets deeply grooved, close and compact in build, color old rosy crimson, with straw reverse.

Lieut. Cochet (Calvat).—A huge Japanese, having long flat florets pure golden yellow, a bloom of noble dimensions and of fine form.

Victoire (de Pins).—A very large Japanese after the style of *Le Colosse* Grenoblois, very full and double, lilac mauve shaded pink, reverse silvery.

M. J. Barat (de Pins).—Japanese, a very full and double flower, of deep build, color rich rosy purple, rather broad florets, reverse silvery.

Le tour d'Argent (de Pins).—A very globular Japanese, compact and close in build, color pure white.

C. HARMAN PAYNE.

Seed Trade

Having placed his order for a fresh supply of garden seeds, your Uncle Samuel is awaiting their arrival, and the completion of the new building he is having built in the grounds of the Department of Agriculture. It looks as if the distribution is bound to be late this year, but the later it is the less mischief it will do.

Onion sets have made a remarkable spurt during the past two weeks, and holders seem reluctant to name prices. It is stated that yellow sets which could have been bought at \$1.75 four weeks ago, are quoted timidly at \$3.00 by holders who seem to be afraid lest their quotations be accepted. Now, if the advance in the price of sets is followed by the expected rise in the price of large onions, there will be created a demand for seed that will carry prices considerably above present levels, which is a consummation devoutly to be wished for.

The recent heavy, wet snow will go hard with any corn still in the field; in fact it will destroy the last faint hope of making seed of it.

While tomato seed is not a factor to be compared with peas, beans or corn in importance, it has scored a marked advance over last year's prices, and has proved, as has been several times predicted in these columns, a decidedly short crop. Such varieties as Stowe, Favorite and Paragon, which have been sold in considerable quantities to seedsmen and canners at from 80 to 90c. per lb., are now in active demand at \$1.50 and \$1.75.

Not for many years have catalogue houses been so at sea over the question of prices. Conditions have changed with kaleidoscopic speed and frequency, and while there has been some easing up on one or two leaders such as onion seed, the general tendency has been towards decidedly higher prices. A greater number of items have been noted as failures than in many years before, and while these failures have in the main been of specialties and varieties not used in large quantities, they have caused no inconsiderable worry to retailers, and particularly to catalogue houses who have their items listed, and, as their catalogues are in most cases made up, the inability to secure such items is likely to result in more or less embarrassment.

The financial stringency is affecting all lines of business, but seedsmen are feeling it less severely than many other lines, excepting the large wholesalers and growers who are having some trouble in getting ready cash with which to pay their farmers and the large force of employes which they carry on their payrolls at this season of the year. Indications are that the tightness is loosening a little, and it is hoped that matters will soon become normal again.

PLANT IMPORTS.

There were entered at the port of New York during the week November 20 to November 26th, inclusive, the following plants, etc.:

Via Antwerp: H. F. Darrow, 3 cs. plants; Hussa & Co., 4 tubs laurel trees.

From Germany: E. L. Boas, 1 cs. plants; H. F. Darrow, 253 cs. lily of the valley pips; Wm. Elliott & Son, 54 cs. do.; McHutchison & Co., 150 cs. do.; Maltus & Ware, 320 cs. do., 6 cs. plants, 40 cs. bulbs; Metropolitan S. S. Co., 23 cs. plants; C. F. Meyer, 152 cs. lily of the valley pips; F. R. Pier-son Co., 10 cs. bulbs; Aug. Rolker & Sons 146 cs. lily of the valley pips, 85 cs. plants; Anton Schultheis, 42 cs. lily of the valley pips; Ter Kuile, 21 cs. do.; Vaughan's Seed Store, 20 cs. roots; Weeber & Don 34 cs. lily of the valley pips; To Order, 280 cs. do., 20 cs. bulbs; Sundry forwarders, 831 cs. lily of the valley pips, 5 cs. plants, 2 cs. lilacs.

Via Southampton: Dearbergh Bros., 8 bls. plants; Dupuy, 5 cs. seedlings; Maltus & Ware, 12 cs. plants; McHutchison & Co., 31 cs. do.; A. Murphy & Co., 1 cs. trees; Aug. Rolker & Sons, 13 cs. plants; C. B. Richard & Co., 3 cs. do.; F. B. Vandergrift & Co., 2 cs. do.

Via Glasgow: J. H. Dunlop, 2 cs. trees; Forwarders, 9 pgs. plants.

From London: American Exp. Co., 2 cs. rose trees; Vaughan's Seed Store, 30 pgs. seed.

From Bermuda: Forwarders: 6 cs. palm leaves.

There were entered at the port of New York during the week of November 27 to December 3, inclusive, the following plants, etc.:

From Germany: A. T. Boddington, 100 cs. lily of the valley; W. W. Barnard & Co., 4 cs. do.; H. F. Darrow, 54 cs. do.; McHutchison & Co., 509 cs. do.; 10 cs. plants; C. F. Meyer, 458 cs. lily of the valley; John Scheepers & Co., 139 cs. do.; August Rolker & Sons, 98 cs. do.; W. W. Palmer & Son, 4 cs. do.; Anton Schultheis, 170 cs. do.; Vaughan's Seed Store, 2 cs. seed; Ralph M. Ward Co., 40 cs. lily of the valley; To order, 2 cs. do.; 100 pgs. seed; Sundry Forwarders, 626 cs. lily of the valley, 14 cs. roots; Total, 2,202 cs. lily of the valley.

Via Havre: H. Frank Darrow, 2 cs. plants, 255 pgs. seeds; Peter Henderson & Co., 128 pgs. seed; McHutchison & Co., 4 pgs. plants.

Via Antwerp: Hussa & Co., 20 cs. shrubs; Kraemer & Foster, 1 cs. plants, 12 tubs laurel trees; Ter Kuile, 1 cs. plants; Sundry Forwarders, 5 cs. bulbs, 1 cs. plants.

Via Rotterdam: H. F. Darrow, 28 cs. plants; Cleary's Horticultural Hall, 3 cs. do.; Wm. Elliott & Sons, 20 cs. do.; McHutchison & Co., 37 cs. do., 1 cs. trees; C. B. Richard & Co., 85 cs. plants; P. Ouwerkerk, 30 cs. trees; Vaughan's Seed Store, 11 cs. plants; Sundry Forwarders, 162 cs. do., 20 cs. trees, 41 cs. trees and plants, 3 cs. bulbs, 19 cs. flower roots.

Via Southampton: N. Bogue, 6 cs. plants; A. T. Boddington, 2 cs. trees; McHutchison & Co., 18 cs. plants, 8 cs. trees, 13 pgs. seed; C. B. Richard & Co., 4 cs. trees; August Rolker & Sons, 7 cs. plants; Vaughan's Seed Store, 4 cs. do.; Sundry Forwarders, 21 cs. do., 6 cs. trees.



CATALOGUES RECEIVED.

E. S. Miller, Wading River, N. Y.—Trade Price-list of Bulbs and Hardy Plants for Spring of 1908.

J. M. Thorburn & Co., New York.—Preliminary Trade Price List of High Class Vegetable Seeds.

John H. Sievers & Co., San Francisco, Cal.—Catalogue of florists' greenhouse plants, including fancy pelargoniums, carnations and begonias as specialties. An illustration of carnation Hannah Hobart adorns the title page.

porium, Washington, D. C. An interesting illustrated catalogue of pet animals, birds, cages, goldfish, etc., many of which are useful accessories to the stock of an attractive florist store, particularly at holiday time.

The Edward H. Rust Palm Nurseries, South Pasadena, Cal.—A most interesting catalogue of the tropical garden and porch plants available in that sunny land. A front cover illustration showing Cocos plumosa used as an avenue tree and a number of the garden pictures interspersed through the pages are calculated to make one envious these cold December days.

GLADIOLI

I can satisfactorily supply your wants for Gladioli for forcing or outdoor planting. Mixtures, color sections or named varieties of exceptional beauty.

Write for Prices

ARTHUR COWEE

Gladiolus Specialist

Meadowvale Farm, BERLIN, N. Y.

GLADIOLI

Spotted Calla, Madeira Vine, Cinnamon Vine, Oxalis Four Varieties, Hyacinthus Candicans, Lilies in Variety, German Iris, Var. Day Lily, Delphinium Formosum

Send for price list of Bulbs and Hardy Plants.

E. S. MILLER, - Wading River, N. Y.

MUSHROOMS.

The accompanying picture shows a bench in a north greenhouse partly filled with these delicious fungi. The spawn was put in September 30th and we started picking October 28th. I would say that the bed was made and planted in the regular way with the exception of the manure which is only



4 inches deep. The result reflects credit on the grower, John Brock, whose picture was taken at the same time. The spawn used was English Milltrack and Pure Culture. The only difference I could see was that the mushrooms of the Milltrack came browner than those from Pure Culture.

ROBERT MARSHALL.

Glen Elsinore.

INCORPORATED.

Gamble Seed Co., Louisville, Ky.: capital, \$10,000.

National Seed Co., Chicago, for raising and dealing in seeds, bulbs and grain; C. C. Carnahan, M. Cox, M. Slusser; capital, \$5,000.

Cover your Cold Frames with HOT BED MATS

Made of burlaps, thickly quilted with jute making a serviceable warm mat. 76 x 76 inches, will cover two frames.

\$1.25 each. \$14.00 per doz.

WM. ELLIOTT & SONS

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Stock Seed

GIANT BRANCHING
85: to 90: DOUBLE
FLOWERS

Pure White, ½ oz. 75c
oz. \$5.00.
Other Colors, ½ oz. 60c,
oz. \$4.00.

H. E. FISKE SEED CO.

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ROMAN HYACINTHS at reduced price to close out.

PER 1000 SEEDS

Asparagus plumosus nanus seeds \$2.25

Asparagus plumosus robustus seeds 2.50

BERMUDA EASTER LILIES

Bulbs of all kinds, native and foreign.

Send for our Trade Bulb List

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33 Barclay St., through to 38 Park Place
NEW YORK
Everything of the Highest Grade

VINCA SEED

Mr. Florist, do you know the right time to sow Vinca seed is right now.

Trade pkt. Per oz.

Vinca Alba, white, with rose centre.....	\$0.15	\$0.50
" " Pura, pure white	.15	.50
" " Rosea, pink.....	.15	.50
" " Mixed .....	.10	.40

BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation. BODDINGTON'S CHRISTMAS WHITE. A grand companion to Christmas Pink.

10c per oz.; ¼ lb. 30c; ½ lb. 50c; 1 lb. 75c.

Our Fall Bulb Catalogue now ready. If you have not already secured one, send a postcard today. It contains a full line of bulbs and flower seeds.

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The Largest Seed Growers in the United States

BAMBOO CANES

TOUGH AND STRONG

6 ft. long — \$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO., - 50 Barclay St., New York

RELIABLE SEEDS

SOW NOW

	Tr. Pkt.	6 Tr. Pkts.
Alyssum Carpet Queen, real dwarf for pots only, no equal....	\$0.25	\$1.25
Begonia Gracilis Luminosa, new Erfordia, beautiful.....	0.50	2.50
Zangen's Bedding Queen	0.50	2.50
Lobelia, new Trailing Hamburgia	0.30	1.50
Petunia, Zangen's Extra Double Fringed Giants.....	1.00	5.00
Zangen's Superb Single Fringed Giants.....	0.75	4.00
Zangen's Ruffled Giants, the best.....	1.00	5.00
Phlox, best for pots, Fireball, Roseball, Snowball, each color.....	0.25	1.25
Salvia Fireball, new, a fine potter	0.50	2.50
Stocks, German 10 weeks: Blood-red, Lavender, Pink, Purple, White, each color.....	0.50	2.50
Verbena Mammoth: Pink, Purple, Scarlet, Striped, White, each color.....	0.25	1.25

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O. V. ZANGEN

Seedsman. HOBOKEN, N. J.

Best Quality Fall Bulbs

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VICK'S SUPERB PANSY SEED

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 75c. 1-4 oz. \$1.50 Ounce \$5.00

JAMES VICK'S SONS, Rochester, N. Y.

CYCLAMEN

Farquhar's Giant Strain

: Unsurpassed for size of flowers.

Giant Crimson Giant Pink
Giant White Finest Mixed
Giant Excelsior, White with
Claret Base

100 seeds, \$1.25; 1000 seeds, \$10.00.

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LARGE SHIPMENT OF

High-Grade SCOTCH SOOT.

We have the Stott Double Nozzle
THOMAS J. GREY CO.

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THE GINKGO AS A STREET TREE.

Read what the highly respected and learned superintendent of the Botanic Gardens, Washington, D. C., Mr. William R. Smith, had to say on the above subject in Meehan's Monthly, November, 1898:

"I think for a curbstone tree among the best is Ginkgo of the Japanese, *Salisburia adiantifolia*, or Maidenhair Tree of the botanists. Two of these interesting trees have flourished in Washington, D. C., for sixty years or more, apart, however, and being unisexual, no seed was produced. We were two years rooting a hard wood cutting and have a good tree thus propagated. Mr. Jardine, a Frenchman, an importer of trees and shrubs, sold to the British legation two Ginkgos to plant each side of the portecochere. He charged \$7.50 apiece for them. The bill was disputed, and we were made referee. The matter was compromised at \$5 each. Shortly after, when searching for street trees, we visited Hoopes Brothers and Thomas, West Chester, Pa. Walking through the nursery with my friend Josiah Hoopes we came to a large lot of Ginkgos. 'There,' he says, 'you know that's a good thing, but our agents won't touch it. It won't sell.' 'What will you take for it?' I asked. 'I'll take forty (40) cents apiece, just to get rid of them,' was his reply. We bargained for three hundred.

"Pierce St., Washington, D. C., is now planted with them and another short street, 17-12 St., just west of Lafayette Square, where they are not so fine as in Pierce Street, owing to their being robbed by adjoining elms in the square, and the soil is not so good. Here may be seen the effects of planting too close; nevertheless, they are very fine and fruit freely. I have never seen an insect near them.

"This tree has a very interesting Boston history which we find in Hooker's Kew Gardens Miscellany, Vol 2, 1850, under the heading 'The Ginkgo in Boston Commons.' A Ginkgo tree formerly stood in a garden belonging to Mr. Green, which garden was in the centre of Boston. After his death (1832) the house and grounds were sold. This tree was removed at the partial cost of the city (each of Mr. Green's children paying \$100 toward the expense) to the walk encircling the Common, and planted before the windows of Mrs. Green's house, in which she resided since her husband's death. The tree is a native of China, and was of full size when Mr. Green, Sr., purchased the garden in 1798. It is now in fine leaf and beauty. The accompanying lines appeared in the public papers some months after the tree's removal. Dr. Bigelow is the author. This poem consists of fifteen stanzas. We quote the last:

"And so thou hast survived thy fall
And fairly disappointed all
Who thought to see thee down;
And better days are stored for thee,
Long shalt thou live, triumphant tree,
And spread thy foliage broad and free
A credit to the town."

"Is this individual tree still triumphant? If not, how long did it live? Mr. Downing, three years afterward, wrote with approval of the operation of transplanting it. He gave its

A Fine Assortment of

==AZALEAS==

Extra fine lot of **FIREFLY** in bloom from

THANKSGIVING to EASTER

WRITE FOR PRICES

MAJOR BONNAFFON

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\$5.00 per 100

W. W. EDGAR CO., Waverley, Mass.

Orders taken now for December or January Delivery

Phoenix Roebelini Seed

1000
\$7

5000
\$31.25

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\$60

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height as forty (40) feet and its circumference as three feet. How is it now? A full history would be interesting."

W. R. SMITH.

WHOLESOME CHESTNUTS.

Lilies are worth money at Christmas, and plants to be in bloom then should now be in such an advanced state as to put the question of whether they will or will not be ready beyond the realm of doubt. Buds of increasing size are the only sure sign of their timely arrival in proper condition. A temperature bordering on 60 degrees is agreeable to plants coming along easily, but if there is cause to suspect that in such a temperature all or any will not be on time, a few degrees higher may without any danger be given them, beginning with a slight increase. Besides the necessity of the proper temperature to bring lilies in on time there is the ever present need of constant watchfulness in keeping the plants clear of green fly. Careful watering is also very important; allowing the roots to get dry is ruinous and spasmodic watering, resulting often in a soggy condition of the soil, is none the less so.

Now is the time most propitious for the satisfactory and rapid propagation of many kinds of indispensable stock. No time should be lost in making a start, in order that when the time approaches for a forced discontinuance there may be a breathing spell instead of a confused rush and a frenzied effort to catch up. Keep the propagating bench comfortably filled right along with cuttings that require bottom heat to root.

Mignonette, to do well, must be grown cool and the soil kept in a sweet mellow condition. The same with

stocks and antirrhinums, all of which are satisfactory and remunerative when well grown.

It is very injurious to plants of Boston fern and its improved varieties to have them growing jammed together. Allow as much air and light in among and upon them now as possible.

Poinsettias sufficiently advanced to insure their fitness for disposal at Christmas are very likely to be much benefitted by moderate application of liquid manure; that made from cow manure is the best and safest to use.

Keep stevias at a temperature above the freezing point, but as near thereto as the reliability of resources safely warrants.

Begin at once on a thorough reckoning of what is available for utility throughout the holidays, and if the result indicates a shortage take measures for getting on the right side in good season.

Dahlias and cannas put away for the winter with some dry soil adhering to them and kept dry where frost will not penetrate, may confidently be expected to turn out in good condition in spring. If there is any fear of their not keeping, put them in barrels or boxes filled afterwards with very dry soil or sawdust.

Many evergreens, especially choice sorts, are killed every winter or left in debilitated condition through lack of moisture at the roots. This can be remedied considerably by putting a good coat of manure on the ground over the roots. Newly planted trees, shrubs and hardy plants of various kinds are much benefited by an application of manure in winter. With roses, either Hybrid Perpetual or others, some such covering is likewise needful.

Beds of rhododendrons may be

helped through the erratic winter weather by some shade in the shape of evergreen branches.

Lilium longiflorum should not be taken indoors until they have made abundance of roots, but they require sufficient protection to prevent frost injuring them outdoors.

The lack of interest apparent in specimen chrysanthemum plants is in line with the well-known fact that anything produced of abnormal dimensions unless it carries along with it increased utility before long ceases to be regarded with anything more than mere curiosity. It may not be over-hazardous to predict that before many years the striving for the production of huge monstrosities of chrysanthemum blooms solely for the exhibition table as is done almost exclusively now, will be a by-gone practice.

USEFUL BOOKS.

We can supply the following books, postpaid, at the prices listed:—

The Chrysanthemum. Herrington. Price, 50 cts.

How to Make Money Growing Violets. Saltford. Price, 25 cts.

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Commercial Violet Culture. Dr. B. T. Galloway. Price, \$1.50.

Water Gardening. Peter Bisset Price, \$2.50.

Lawns and How to Make Them. Leonard Barron. Price, \$1.10.

Roses and How to Grow Them. By Many Experts. Price, \$1.10.

The New Cyclopaedia of American Horticulture. L. H. Bailey. Four volumes; \$20.00.

How to Make School Gardens. H. D. Hemenway. Price, \$1.10.

How to Make A Fruit Garden. S. W. Fletcher. Price, \$2.20.

How to Plan the Home Grounds. S. Parsons, Jr. Price, \$1.10.

Soils: How to Handle and Improve Them. S. W. Fletcher. Price, \$2.20.

Water Lilies and How to Grow Them. Henri Huss and H. S. Conard. Price, \$1.21.

A Plea for Hardy Plants. J. Wilkinson Elliot. Price, \$1.76.

How to Make a Flower Garden. Price, \$1.76. By Various Experts.

Ferns and How to Grow Them. G. A. Woolson. Price, \$1.21.

How to Make a Vegetable Garden. Edith L. Fullerton. Price, \$2.20.

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PRIMULA OBCONICA, best new strain, 4 in. in bloom, 15c.; coming into bud, 10c. 5½ in. pots, in bloom, \$2.50 per doz.; coming into bud, \$2 per doz.

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BEGONIA GLOIRE DE LORRAINE, in bloom and bud, 6 in., 50c., 75c.; 1 each: 4 in., 25c.; 3 in., 25c.

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BEGONIA NEW IMPROVED ERFORDII, 4 in., 20c.; 5 in. pots, 25c.

DRACAENA BRUANTI, from Belgium, full of leaves, 6 in., 40c.

NEPHROLEPIS WHITMANII, 6 in., 50c., 75c., \$1 each. 7 in., as big as a bushel basket, \$1.25, \$1.50 each.

NEPHROLEPIS BOSTONI, 8 in., as big as a washtub, \$1.25 to \$1.50 each. 7 in., very large, 75c. to \$1 each. 6 in., very large, 50c. 5 to 5½ in., 35c., 40c.

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NEWS NOTES.

A nursery is about to be started at Gridley, Ill., by C. A. Rowley.

Sven E. Hanson, of Worcester, Mass., has been appointed park commissioner.

The Scranton Florist Supply Co., Scranton, Pa., have purchased the Bishop property at 201 Seventh street, for \$4,500.

J. H. Connelly, landscape gardener, was thrown from his wagon December 3 at Hyannis, Mass., and had his right arm broken.

Louis A. Crosby has purchased the greenhouses on the Homestead property at Lenox, Mass., and will move them to Hawthorn street.

Napoleon Lemay, florist of New Bedford, Mass., was badly scalded by the bursting of a hot-water pipe in his greenhouse on November 26. The pipe had been giving trouble and he was at work on it.

Edwin Lonsdale, who is a great admirer of the Ginkgo as a street tree, proposes to set out quite a number around the pavement of Girard College next year. He has cut down some fifty or sixty poplars this fall and they will be replaced with Ginkgos.

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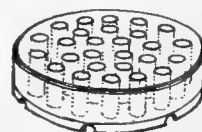
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Z. D. Wiles, of Gardiner, Me., opened
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ber 3.

Mrs. Gertrude L., wife of C. A. Davis,
florist, of Dover, N. H., is a candidate
for school committee.

The Stafford greenhouses have
opened a retail store in the Manthei
Block, Marquette, Mich.

Berger Bros.' wholesale and retail
store is now the rallying point for the
patrons of the Philadelphia wholesale
market. They now have the field all
to themselves at 13th and Filbert Sts.

R. G. Palmer, at one time treasurer
of the Philadelphia wholesale market
and latterly with E. Bernheimer, has
taken a position with A. M. Campbell.
Mr. Campbell reports business as ex-
ceptionally good considering the back-
ward season.

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Am. Beauty, Fancy and Special...	30.00	to 40.00	40.00	to 60.00	30.00	to 35.00	25.00	to 35.00
" Extra	20.00	to 25.00	30.00	to 45.00	20.00	to 25.00	15.00	to 25.00
" No. 1.....	12.00	to 15.00	20.00	to 26.00	12.00	to 15.00	10.00	to 15.00
" Lower grades.....	6.00	to 10.00	8.00	to 15.00	4.00	to 8.00	4.00	to 8.00
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" Low.gr.	4.00	to 5.00	2.00	to 4.00	3.00	to 5.00	1.00	to 4.00
Liberty, Richmond, Chat. may F&S	6.00	to 8.00	8.00	to 12.00	10.00	to 15.00	6.00	to 8.00
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Killarney, Wellesley, Fan. & Sp.....	7.00	to 8.00	4.00	to 10.00	6.00	to 10.00	6.00	to 8.00
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Chrysanthemums, Fancy.....	25.00	to 30.00	20.00	to 40.00	20.00	to 25.00	12.00	to 25.00
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Adiantum.....	.75	to 1.00	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax.....	15.00	to 16.00	12.00	to 15.00	15.00	to 25.00	8.00	to 12.00
Asparagus Plumosus, strings.....	35.00	to 50.00	35.00	to 60.00	to 50.00	to 50.00
" " & Spreu. (100 bchs.)	35.00	to 50.00	35.00	to 60.00	35.00	to 50.00	20.00	to 50.00

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BUCKS CO.,

FLOWER MARKET REPORTS

BOSTON This week opens up somewhat quieter than the last but is fairly satisfactory, everything considered. Demand seems to be stronger with the wholesale shipping houses than with the flower markets, which is possibly explained by the fact that the retail business in the city proper is less active at the present time than it is in the outside towns and rural communities. Throughout New England Tea roses are strong where quality is good but low grade roses are hard to dispose of. Beauties find a somewhat lighter call. Carnations of best quality are selling well and the effect of the lessened chrysanthemum product is very evident. Violets hold their own fairly well but lily of the valley drags in a most unexplainable manner. Should conditions hold as they are now until holiday week there will be no reason for grumbling.

BUFFALO The tone of the market was much better the past week though nothing flourishing. It was hardly noticeable that a holiday was mixed in, but all must give thanks for the little extra business. Chrysanthemums sold very satisfactorily, but the prices were not up to the year previous; the same may be said about carnations, roses and other stock. Carnation demand grew stronger each day from Monday. Beauties were in good supply and of fine quality; on these the prices held firm, also on teas. A fairly good demand was had on lilies, narcissi, hyacinths, etc., but lily of the valley moved with difficulty, and there was enough to go around two or three times. Violets were in good supply and the quality fine; there being no snow to delay trains they for one time arrived when they were wanted, and a fairly good cleaning-up was the result, but prices advanced very little.

DETROIT. The passing of Thanksgiving Day closes the chrysanthemum season. All growers have reason to be gratified at the monetary returns brought by the chrysanthemums. At no time was there a stagnation or glut but rather a shortage of white varieties and if growers bear this in mind when the time for planting chrysanthemums reappears, next season can be made still more remunerative. Thanksgiv-

ing day brought a general increase in the counter trade but probably not as large as at other seasons. Most of us were kept hustling for the debutantes some of whom made quite strenuous demands on the florists. All in all satisfaction reigns.

INDIANAPOLIS The past week has been an exceptionally dull one. Leading retailers report Thanksgiving trade 10 to 25 per cent behind that of last year, lily of the valley, violets, Beauties and tea roses finding slow sale. The demand was mostly for carnations and the medium grades of chrysanthemums. Quantities of good stock of all kinds was to be had, with a slight advance in price of the better grades. The outlook at the present time is not encouraging, and should the present condition continue prices will not advance on anything. The larger blooms in chrysanthemums are still in fair supply. Fine lily of the valley, Paper Whites and Roman hyacinths are to be had, but do not sell in large lots. Greens are available in any quantity.

NEW YORK Lower values all around tell the story of the reaction after the little spurt of Thanksgiving week. The supplies coming to this market are so heavy that a constantly moving outlet is indispensable to anything like stable values, and the slightest lull in general demand is bound to be reflected in accumulated surpluses which, while they usually find some sort of an outlet, do so only at "bargain counter" figures. Any effort to hold stock for a price under such conditions only results in its final debasement to a still lower bargain counter. Carnations are rallying nicely now that the domination of the chrysanthemum is at an end. Between asters at first and chrysanthemums afterwards, the carnation finds a rough road nowadays from midsummer until middle of December. After that "it's different."

PHILADELPHIA Two big foot ball games Wednesday and Saturday, together with Thanksgiving Day made the past week unusually good in Philadelphia; but not as good as it should have been, judging from last year's standards. Immense quantities of stock found a market,

but the market was so overloaded that notwithstanding the good demand there was no chance for the prices to jump. Beauties were of fine quality and plentiful and the same may be said of all other roses. Chrysanthemums such as Nonin, Chadwick and Jones are still a strong factor. Carnations shortened up considerably and there was a corresponding stiffening of prices. Lily of the valley continued fine but plentiful and the demand was only normal. Cattleyas were scarce and the supply of white orchids was practically exhausted. Cypripediums are now commencing to come in quantity. Paper Whites are plentiful and go but middling. Easter lilies sluggish. Boxwood in cut sprays in case lots meets with good sale. Bookings for evergreens, Christmas plants, and decorative material are very brisk.

TWIN CITIES Business in the Twin Cities was rushing the past week. There was and still is a shortage of carnations, roses and chrysanthemums. There were enough but not too many, and prices kept up good. The shortage on carnations is mostly due to the cloudy weather which prevailed for a week or ten days.

WASHINGTON Thanksgiving was indeed a day of thanksgiving to the Washington florists. Everything, even to small flowers and plants, sold readily. The day dawned very unfavorably, to all appearances, but before noon the clouds broke and a beautiful afternoon favored the city. Azaleas are beginning to come in but are by no means up to the standard. Carnations and violets are responding most satisfactorily, although the continued cloudy weather has cut down the amount of bloom.

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New York

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WHOLESALE FLORIST
 Finest American Beauties and
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51 West 28 St. - NEW YORK

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FINE ROSES FANCY CARNATIONS
 A Full Line of ALL CUT FLOWERS
 Telephone, 3870 or 3871 Madison Square

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 Wholesale Commission Florist,
 Choice Cut Flowers,
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 Telephones: 2200, 2201, Madison Square.

The Reliable Commission House
 Richmond Roses and Rich Flowers
 of all varieties
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 NEW YORK
 Telephone 167
 Madison Sq.
 OPEN 6 A.M. DAILY
 We have a good regular outlet for seasonable flowers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Nov. 30 1907		First Half of week beginning Dec. 2 1907			Last Half of Week ending Nov. 30 1907		First Half of Week beginning Dec. 2 1907	
Roses					Carnations, Fancy and Novelties.	2.00 to 3.00	2.00 to 4.00		
Am. Beauty, fan and sp.	20.00	to 25.00	10.00	to 20.00	" Ordinary .....	..... to 1.00	..... to 1.00		
" extra	12.00	to 15.00	5.00	to 10.00	" .25 to .75 .....	..... to .75	..... to .60		
" No. 1.	4.00	to 10.00	5.00	to 8.00	Cattleyas	25.00 to 50.00	..... to 75.00		
" Lower grades .....	.....	to 1.00	.....	to 1.00	Lilies	4.00 to 10.00	4.00 to 8.00		
Bride, 'Maid, Golden Gate, fan & sp	2.00	to 6.00	4.00	to 8.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00		
" " " lwr. grds. ....	.....	to .50	1.00	to 1.50	Gardenias	10.00 to 35.00	..... to		
Liberty, Richmond, fancy & special	2.00	to 6.00	4.00	to 8.00	Chrysanthemums, Fancy	10.00 to 15.00	10.00 to 25.00		
" " " lower grades ..	.....	to .50	1.00	to 1.50	" Ordinary	1.00 to 4.00	3.00 to 5.00		
Killarney, Wellesley, fan. and spec.	2.00	to 6.00	5.00	to 10.00	Adiantum	1.00 to 1.25	1.00 to 1.50		
" " " lower grades. ....	.....	to .50	2.00	to 3.00	Smilax	8.00 to 10.00	8.00 to 12.00		
					Asparagus Plumosus, strings.	25.00 to 40.00	25.00 to 40.00		
					" " & Sprea. (100 bchs.)	..... to 15.00	..... to 15.00		

B. S. SLINN, Jr.
WHOLESALE FLORIST
 55 & 57 W. 26th St., New York City
 Tel., 3864 Madison Sq. Shipping Orders Solicited.
VIOLETS Roses and
 Carnations

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Wholesale Florist
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 1463

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WHOLESALE FLORISTS
 Furnish best stock at fair prices all the year round Send for quotations on fall orders
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 43 WEST 28th STREET
 PHONES. 1664--1665 MADISON SQUARE
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RECEIVERS & SHIPPERS OF CUT FLOWERS.

CONSIGNMENTS SOLICITED.

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ROSES, CARNATIONS
And all kinds of Seasonable Flowers

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Wholesale Commission Florist, also Dealer in Florists' Supplies and Wire Designs.

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Give us a trial. We can please you.

Best Flowers
IN THE
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Send for Prices

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Will purchase flowers on order in N. Y. market and ship carefully at prevailing wholesale prices. Address

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Finest Grades of Roses, Carnations, Chrysanthemums, Lily of the Valley, Violets, etc.
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See our Fern ad.

WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Dec. 2		Dec. 1		Dec. 2		Dec. 2	
ROSES								
Am. Beauty, Fan, and Sp.....	.....	to 35.00	50.00	to 60.00	.....	to 30.00	25.00	to 30.00
" Extra.....	25.00	to 30.00	35.00	to 40.00	15.00	to 25.00	15.00	to 20.00
" No. 1.....	15.00	to 20.00	20.00	to 30.00	10.00	to 15.00	10.00	to 15.00
" Lower grades.....	8.00	to 10.00	8.00	to 12.00	5.00	to 10.00	4.00	to 5.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	8.00	to 10.00	6.00	to 10.00	6.00	to 8.00
" " Low. gr.	3.00	to 4.00	4.00	to 8.00	4.00	to 6.00	2.00	to 4.00
Liberty, Richmond, Chateaux, F&S	6.00	to 8.00	8.00	to 10.00	6.00	to 10.00	10.00	to 12.00
" " Lower grades.....	3.00	to 4.00	4.00	to 8.00	4.00	to 6.00	4.00	to 6.00
Killarney, Wellesley, Fan, & Sp...	6.00	to 8.00	8.00	to 10.00	6.00	to 10.00	6.00	to 8.00
" " Lower grades	3.00	to 4.00	4.00	to 8.00	4.00	to 10.00	.....	to 4.00
CARNATIONS								
Fancy and Novelties.....	.....	to 3.00	4.00	to	3.00	to 4.00	4.00	to
Ordinary.....	1.00	to 2.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
MISCELLANEOUS								
Violets.....	.50	to .75	1.25	to .....	.75	to 1.25	.75	to 1.00
Cattleyas.....	50.00	to 60.00	50.00	to .....	.....	to .....	.....	to 60.00
Lilies.....	12.50	to 15.00	15.00	to	4.00	to 15.00	13.00	to 15.00
Lily of the Valley.....	3.00	to 4.00	4.25	to	3.00	to 5.00	.....	to 4.00
Chrysanthemums, Fancy.....	15.00	to 20.00	20.00	to 25.00	15.00	to 20.00	25.00	to 30.00
" Ordinary.....	4.00	to 10.00	10.00	to 15.00	5.00	to 10.00	8.00	to 12.50
Adiantum.....	.....	to 1.00	1.00	to 2.00	.50	to 1.00	1.00	to 1.25
Smilax.....	2.50	to 15.00	12.50	to .....	.....	to 15.00	15.00	to 18.00
Asparagus Plumosus, strings.....	40.00	to 50.00	50.00	to 75.00	50.00	to 60.00	35.00	to 50.00
" " & Sprea. (100 bchs.)	25.00	to 35.00	10.00	to 50.00	25.00	to 50.00	40.00	to 50.00

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White Doves, \$9.00 per doz.
Galax Leaves.

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J. B. Murdoch & Co.

Wholesale Florists

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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Achyranthes, yellow, 2½-in., 2c.; 3-in., 4½c.
Hammerschmidt & Clark, Medina, Ohio.

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Adiantum Hybridum, 2½-2 in. pots, \$5.00 per 100; \$45.00 per 1000. 3 in. pots, \$8.00 per 100; \$75.00 per 1000. A. Ley & Pro., Highland, Ulster Co., New York.

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Asparagus Sprenger, 2½-in., 1½c. Fine. Hammerschmidt & Clark, Medina, Ohio.

Asparagus Sprenger, field grown, \$4.00 and \$6.00 per 100. C. Winterlich, Defiance, Ohio.

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W. W. Edgar Co., Waverley, Mass.
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Stump & Walter Co., 50 Barclay St., New York.

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Yokohama Nursery Co., 31 Barclay Street, New York.

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For page see List of Advertisers.

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BUILDING MATERIAL of all description for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths; Bermuda Easter Lilies. For page see List of Advertisers.

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Rickards Bros., 37 East 19th St., New York. White Roman Hyacinths.

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H. F. Michell Co., Philadelphia. For page see List of Advertisers.

H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

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James Vick's Sons, Rochester, N. Y. Fall Bulbs.

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D. Rusconi, 128 W. Sixth St., Cincinnati, O. Callas, Narcissi, Dutch Bulbs.

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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Tulips, Hyacinths, Narcissi, Crocuses. For page see List of Advertisers.

Aug. Rolker & Sons, 31 Barclay St., New York.

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Lily of the Valley Excellents. For page see List of Advertisers.

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F. Dorner & Sons Co., Lafayette, Ind. For page see List of Advertisers.

Chicago Carnation Co., Joliet, Ill. Carnation Andrew Carnegie. For page see List of Advertisers.

The H. Weber & Sons Co., Oakland, Md. Seedling Carnation Toreador.

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Charles H. Totty, Madison, N. J. For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn.

Chrysanthemum Stock Plants.

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Chrysanthemum Stock Plants.

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Chrysanthemums, reading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2½ in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

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Getmore Box Factory, Inc., Belleville, Ala. Light Wood Boxes.

We Have Them.

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A. B. Davis & Son, Purcellville, Va.

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Pailsades Nurseries, Sparkill, N. Y.

Field Clumps.

DAISIES

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New Double Daisy.

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Anton Schulthels, College Point, N. Y.

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The Castle Company,
170 Summer St., Boston, Mass.

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Nephrolepis Whitman.
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Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
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H. M. Robinson & Co., 15 Province St. and
9 Chapman Pl., Boston, Mass.
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Decorative Evergreens.
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Atlanta Floral Co., Atlanta, Ga.
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Chicago.
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William J. Smyth, Michigan Ave. and 31st
St., Chicago.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Thos F. Galvin, 124 Tremont St., Boston.
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Julius A. Zinn, 2 Beacon St., Boston.
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Kansas City, Mo.
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Wm. L. Rock Flower Co., 1116 Walnut
St., Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

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GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.
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Finest green and bronze Galax in any
quantity at lowest figures. N. F. Mc-
Carthy, 84 Hawley St., Boston.

We Have It.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

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Gladioli. Write for leaflet. B. Ham-
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Nicotinide kills all greenhouse pests.
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We Have Them.

Send for New Illustrated Catalogue.
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Mills the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILY OF THE VALLEY

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Cold Storage.
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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

BERBERIS THUNBERG and IBOTA PRIVET SEEDLINGS. 100,000 in 3 grades; extra fine. Write for prices and samples. The Continental Nurseries, Franklin, Mass.

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Importers, Exporters, Growers, Hybridists.
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Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice pansy plants, 50c. per 100; \$4.00 per 1000. Cash. Aug. Zirngiebel, Needham, Mass.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat, Leaf-Mould, Live Sphagnum moss, Baled Sphagnum moss, Green Clump moss, etc. Jobbers' list on application. C. W. Brownell & Co., Walden, N. Y.

PHOENIX ROEBELINI SEED

Yokohama Nursery Co., 31 Barclay St., New York.
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PIPE AND FITTINGS

Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS

H. N. Hoffman, Elmira, N. Y.
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Primroses, old-fashioned dble. white, strong. Levant Cole, Battle Creek, Mich.

2,000 Chinese primroses, fringed, double and single, 4 1/2 in. pots, mixed colors, extra strong plants, 8c. each. Try them. Primula obconica, 4 1/2 in. pots, bud and bloom, 4c. each. Alonzo J. Bryan, Washington, New Jersey.

PRIVET

Privet Amurensis, all sizes. Write for trade list. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

RAFFIA

Samples free. Large assortment of colors. R. H. Comey Co., Camden, N. J., or, 810-824 Washburn Ave., Chicago.

We Have It.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

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New England Nurseries, Inc., Bedford, Mass.

Roses for Forcing.
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400 varieties; own roots; summer grown.
Leedle Company, Springfield, Ohio.

Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Crimson Ramblers, extra strong, 3-yr., for forcing, at 9 cts. Gilbert Costich, Rochester, N. Y.

The beautiful new pink rose, MISS KATE MOULTON is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500 \$125.00; 1000 \$200.00; 5000 and upwards \$175 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

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Antigonon leptopus, per lb. \$1.25; oz. 15c.
Ada J. Brooks, grower, Sorrento, Fla.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. I.

We Have It.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

Sphagnum Moss and Peat, fresh stock; Floral Moss a specialty. Guaranteed to give satisfaction. Write for prices. W. H. Stackhouse, prop., Box 11, Waretown, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schnitz, Prince Bay, N. Y.

STEAM TRAP

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VEGETABLE PLANTS

Tomatoes for forcing, 2 1-2 in. Comet, \$2.50; Lorillard, \$2.00 per 100. Roney Bros., West Grove, Pa.

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Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

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Is Your Name In The Above
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New Offers in This Issue.

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Godfrey Aschmann, 1012 W. Ontario St., Philadelphia.

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ASPARAGUS AND RHUBARB CLUMPS FOR FORCING.

Warren Shinn's Nursery, Woodstown, New Jersey.

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CARNATIONS, WINONA, WHITE PERFECTION, ROOTED CUTTINGS.

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FLOWER POT HANDLE AND HANGER.

W. C. Krick, 1164-66 Greene Ave., Brooklyn, N. Y.

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STOCK SEED, GIANT BRANCHING.

H. E. Fiske Seed Co., 12 & 13 Faneuil Hall Square, Boston

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WHOLESALE FLORIST.

A. M. Campbell, 1510 Sanson St., Philadelphia.

For page see List of Advertisers.

In the multiplicity of special societies in America the orchid seems to have been kept in the background. Why should not the devotees of the orchid organize? We believe that a movement on this line would meet with enthusiastic support from the orchid lovers in America whose number is legion.

TO LEASE

For a term of years. Four Greenhouses containing about 40,000 ft. of glass. Low rent and a good market. For particulars address

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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

MUNICIPAL CIVIL SERVICE COMMISSION,
299 Broadway.

AMENDED NOTICE.

New York, November 29, 1907.
PUBLIC NOTICE IS HEREBY GIVEN that the time for receiving applications for the position of GARDENER has been extended until 4 P. M., MONDAY, DECEMBER 30, 1907. The examination will be held on WEDNESDAY, JANUARY 22, 1908, at 10 A. M. The subjects and weights are Special, 6; Experience, 4.

The provisions of clause 12 of Rule VII, to the effect that "no person who has entered any examination for appointment to a competitive position and failed therein or who has withdrawn therefrom, shall be admitted within nine months from the date of such examination to a new examination for the same position," is waived so far as it applies to this examination.

For further information apply to the Secretary.

F. A. SPENCER, Secretary.

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

FOR SALE

FOR SALE—4 Greenhouses, most desirable location in the Newtons; large lot land fronting on two streets, dwelling house of 8 rooms; all flowers sold at door for fancy prices; excellent business, best reasons for selling; price will be made reasonable. Peakey-Wallace Co., 101 Tremont St., R. 717, Boston.

FOR SALE—One top delivery wagon and one open delivery wagon, suitable for a florist's use; almost new and in good order; also a pair of good delivery horses; the above can be bought at your own price. Ed. Higon, 146 West 28th st., New York.

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HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

BUFFALO, N. Y.—E. C. Brucker, 325-37 Elliott St.

CINCINNATI, OHIO—Frank W. Ball, 31 East 3d St.

DETROIT, MICH.—Frank Danzer, 1487 15th St.

INDIANAPOLIS, IND.—George B. Wiegand, 1810 N. Illinois St.

MONTREAL, P. Q.—Gabriel Vrengde, 27 Ontario Ave.

NEWPORT, R. I.—David McIntosh, Ledge Road.

MINNEAPOLIS, MINN.—C. N. Ruedlinger, 2924 So. Aldrich Ave.

PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.

PITTSBURG, PA.—James Hutchinson, corner Dunmoyle and S. Negley Aves.

TOLEDO, OHIO—J. L. Schiller, 929 Prout Ave.

FRUIT GROWERS' FEATHERED FRIENDS.

It is gratifying to note that after an exhaustive research the Department of Agriculture has declared that the birds of California are not injurious to the fruit industry of that State. According to the report the strictly insectivorous birds prove to be almost wholly beneficial, by far the greater percentage of the insects eaten by them being injurious kinds. They are hence allies of the orchardist and their presence in and near orchards should be encouraged in every way. Of the species addicted to fruit eating, not one was found to make its diet wholly or even chiefly, of fruit; and the fruit eaters with possibly the exception of the house finch, are found to feed upon weed seeds and noxious insects to such an extent as to fully offset their destructive propensities. One reason why birds attack fruit in California more than in regions further east, is given as the dryness of the summers, the birds finding juicy fruits an acceptable substitute for water, to secure which, in some instances, necessitates a flight of several miles. Much of the injury done to small juicy fruits in California, such as grapes and cherries, consists of simple punctures in the skin, through which apparently nothing but juice has been drawn. It is therefore recommended that drinking places be maintained for the birds in orchards where water is not otherwise accessible. Among the birds studied were the house finch, or linnet, Western tanager, swallows, California shrike, vireos, warblers, thrashers, wrens, nuthatches and titmice, kinglets, gnat-catchers, robins, etc. The author, F. E. L. Beal, notes "a healthy state of feeling on the part of the great majority of the California fruit growers toward the bird population. While many stated they suffered loss none advocated measures for the extermination, or even the material decrease of the birds. 'We can't get along without the birds' was the sentiment voiced by many and really endorsed by all."

NEWS NOTES.

The Report of the Secretary of Agriculture shows that the common rat probably does more damage on farms than all wild animals combined. Owing to injury of orchard trees by rabbits, experiments have been carried on to discover a protective wash, and such a wash has been found in the lime-sulphur-salt wash so extensively used against the San Jose scale.

There are in the Western States eight government nurseries for the growing of forest trees, located in the national forests of San Gabriel, Santa Barbara, Gila, Dismal River, Pike's Peak, Salt Lake, Pecos, and Lincoln. The combined area of seed beds at the eight stations is eleven acres, which contain 5,000,000 trees from one to three years old. About 700,000 trees were planted during the winter and spring of 1907.

FIRE RECORD.

The boiler shed and palm house at the Industrial Gardens, Mobile, Ala., were destroyed on November 12.



RHODES DOUBLE CUT PRUNING SHEAR

Pat'd June 2, 1903.

RHODES MFG. CO.,
GRAND RAPIDS, MICH.

THE only pruner made that cuts from both sides of the limb and does not bruise the bark. Made in all styles and sizes. We pay Express charges on all orders. Write for circular and prices.

GREENHOUSES BUILDING OR CON-TEMPLATED.

- Berlin, Conn.—A. A. Weldon, one house.
 Dighton, Mass.—J. T. Place, one house.
 Toledo, O.—Krueger Bros., one large house.
 Melrose, Cal.—J. Groves, carnation house.
 Scranton, Pa.—E. S. Smith, one house.
 Wenham, Mass.—E. D. Jordan, two houses.
 Chicago, Ill.—Seitz & Nordell, two houses.
 Attica, N. Y.—A. Pauly, range of houses.
 Fitchburg, Mass.—City of Fitchburg, house 18x27.
 Middletown, R. I.—R. T. Demery, conservatory.
 Athol, Mass.—Hager & Temple, cucumber house.
 Westfield, Mass.—Henry Barton, addition, 85 feet.

NEW HEATING APPARATUS.

- E. C. Stammerjohn, Boonville, Mo., new boiler.
 T. Nespoli, San Francisco, Cal., steam boiler.
 E. Kirchner & Son, Winona, Minn., 100 h. p. boiler.
 Frank Pelicano, Ocean View, California, steam boiler.

LIST OF PATENTS.

Issued November 12, 1907.

- 870,695. Plow. William Sobey, Racine, Wis., assignor to J. I. Case Plow Works, Racine, Wis.
 871,039. Irrigating or Ditching Plow. Martin Jackson, Mabton, Wash.
 871,061. Draft Equalizer. James J. Ford, Fred Hollister and Mark Hollister, Jr., Fort Dodge, Iowa.
 Issued November 19, 1907.
 871,328. Corn-Planter and Fertilizer-Dropper. William J. Downs, Fragrant, Ky.
 871,339. Hand-rake Attachment. Frederick F. Horn, Colorado Springs.
 871,388. Plowing-under Attachment for Plows. Thomas J. Churchill, Boardman, Conn.
 871,536. Seed Separator. Edward Thompson, Minneapolis, Minn.

Charles Fremd, florist of Rye, N. Y., having received notice that an uncle had died in New South Wales and left him a large legacy, placed the matter in the hands of a lawyer and has just received his share of the estate. It amounts to 40 cents.—N. Y. Journal.



I MANUFACTURE AND ERECT

Iron frame and wood Greenhouses of every type for commercial and private use. If you contemplate building, allow me to submit sketch and estimate covering your requirements.

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Main Office and Factory:
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EASIEST APPLIED.**

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288 sheets.....	6.50
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Gallon.....	10.50
5 Gallons.....	47.25

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WILSON'S PLANT OIL

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Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
Yours very truly,
GEO. A. SKENE.

Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
Yours truly,
A. HERRINGTON.

PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

ANDREW WILSON, Dept. 8.

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STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
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1500 3 " " " 6.00	
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500 4 " " " 4.50	48 10 " " " 4.80
320 5 " " " 4.51	24 11 " " " 3.60
144 6 " " " 3.16	24 12 " " " 4.80
	12 14 " " " 4.80
	6 16 " " " 4.50

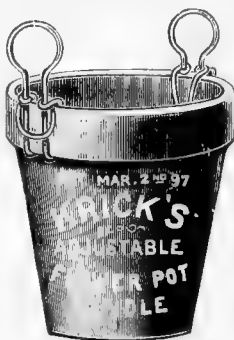
Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 81 Barclay St., N. Y. City.

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The Perfect Flower Pot Handle and Hanger is used for lifting plants out of Jardinieres, also for hanging up plants for Decorations on Walls, etc., and will sustain a weight of 100 lbs.

No. 1 will fit from 2 to 5-inch pots, per dozen.....30c
No. 2 will fit from 5 to 8 inch pots, per dozen.....40c
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By Mail 10 cents extra per dozen.



Sample pair 10 cents, post paid

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Holds Glass Firmly

See the Point at PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

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ANCHOR GREENHOUSE HOSE

WEARS WELL.

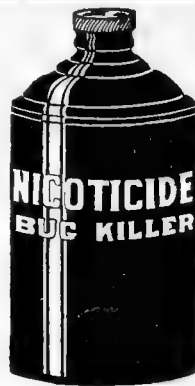
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The Best
**Bug Killer and
Bloom Saver**

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For the Garden, Orchard and Greenhouse.

Non-poisonous and harmless to vegetation.

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Mealy Bug, Red Spider, Scale, Wire
Worms, Ants and Slugs.**

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests, and keeps down filth. Circulars on application \$1.50 per gallon. Also in quarts, half gallons and in bulk.

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satisfactorily from a cut, how extremely light yet solid as a rock our Iron Frame Houses are. Here is a 40 foot interior, with only two lines of columns spaced on each rafter, 8 feet 4 inches apart, and the effect in this illustration as you look down the center walk, gives somewhat the impression of a "house full of columns." You have to see one of our houses to know what their lightness means, and to appreciate the care and strength given to every structural detail. What we want to do, is visit one of our 1907 model houses with you, and point out the many points of superiority. There is nothing quite so convincing as seeing the thing itself. Make an appointment with us. Write us.

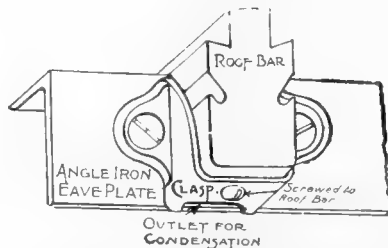
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GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

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About the cast iron foot piece and angle iron post — now once more on the galvanized angle iron eave plate and what it does.

First, the sash bar clasp is secured directly to it, causing a dry, non-rotting joint.

Second, it gives tremendous strength to the house at just the point strength is needed.

Third, it keeps itself ice free.

Fourth, it won't rust.

It's easy enough to know a house's weak points, but it's another thing to make the weak points strong—that's our strong point.

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CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
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ERECTED AND EQUIPPED COMPLETE IF DESIRED

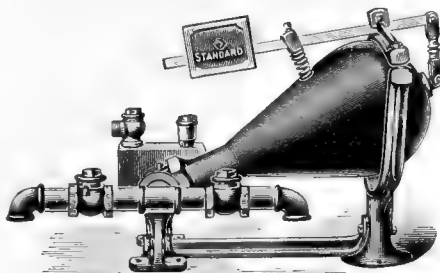
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QUALITY AND WORK THE BEST.
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ESTIMATES WILL PROVE. TRY US.

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Will Ventilate any Size of House Easily. Send for Circular.

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"SEEING is believing" is an old time saying, but nothing newer or truer could be said of the U-Bar greenhouse. We don't know of a single instance where we have been able to show a man a U-Bar house—get him on the outside and look in, and then from the inside and look out—that he has not become convinced that it is the *only* greenhouse construction. Not only convinced but downright enthusiastic. So that is our reason for wanting you to see one of these houses. The following list selected from our customers in various places here and there over the country, will be a guide to the one most conveniently reached. We will gladly tell you how to reach any of these houses. But before you go, give a half hour to our catalog, to better know exactly what points of superiority to look for—and to get completely out of your mind the impression that it is only the ordinary construction you are going to see. It is as absolutely different and far in advance of any others. Send for the catalog while you have our address right handy.

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Glen Cove, L. I.
Greene, R. I.
Greenwich, Conn.
Hackensack, N. J.
Hastings-on-Hudson, N. Y.
Hyde Park, N. Y.
Island of Orleans, Quebec.
Irvington-on-Hudson, N. Y.
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Litchfield, Conn.
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Madison, N. J.
Mamaroneck, N. Y.
Marietta, O.
Millbrook, N. Y.
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Montreal, Canada.
Morristown, N. J.
Nebraska City, Neb.
New Haven, Conn.
New Orleans, La.
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N. Y. City (N. Y. Botanical
Gardens, Bronx Park).
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Designers and Builders U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23rd St., New York

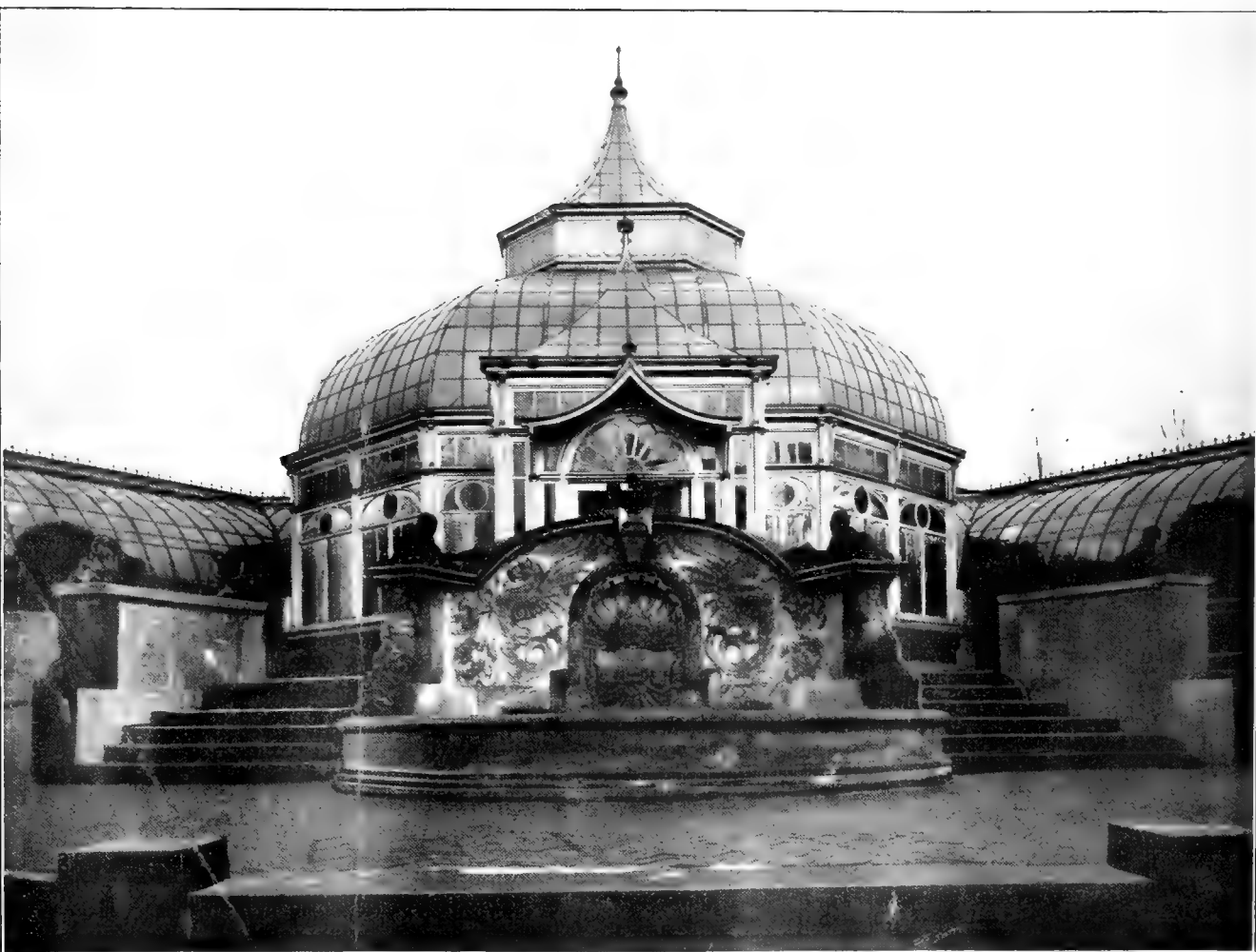
HORTICULTURE

Vol VI.

DECEMBER 14, 1907

No. 24

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NEW
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PALM HOUSE, A. R. PEACOCK CONSERVATORIES, PITTSBURG

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Very Large and Handsome.

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Telephone 1998 Madison

49 West 28th Street, NEW YORK.

DAHLIA CHARLES LANIER

BEST NOVELTY OF THE YEAR



We shall not describe it ourselves—the Press has already done so.

... WHAT THE PRESS SAYS ...

From the New York Tribune, Sept. 26, 1907.
At the Dahlia Show at the American Institute Exhibit.

Probably the most striking of the new Dahlia specimens is a brilliant yellow, its round blossom as large as the head of a baby, from the Charles Lanier Estate at Lenox.

Standing high and proud on their long stems in a huge yellow vase in the centre of a table these magnificent blossoms caused audible exclamations as they caught the eyes of the visitors. This is their debut in New York, although they were recently shown in Boston.

From the New York Times, Sept. 27, 1907.
Newest Specimens at the Dahlia Show.

A large number of men and women visited the big dahlia show at the American Institute, 19 West Twenty-fourth St., yesterday afternoon. There were at least

200 varieties of the finest and newest specimens of this beautiful Fall flower, and it would be impossible to tell how many colors and shades.

The most noticeable blossom was a big Charles Lanier which is known as the "show" dahlia. It is the old-fashioned quilled flower but of a mammoth size and beautiful yellow color. This was raised by A. H. Wingett, on the estate of Charles Lanier, Lenox, Mass., and named for the proprietor. Mr. Wingett has been at work developing the plant for the last three or four years, and it has now been awarded first prize and a certificate, which is a scientific sanction of it as a new flower.

The Charles Lanier dahlia probably will be sold before the exhibition closes and should bring a good price, for it stands alone in its class.

From Horticulture, Sept. 7, 1907.
Dahlia Show at Boston.

The dahlia show at Horticultural Hall.

Boston, this week is unquestionably the finest exhibition of dahlias ever given in America.

The sensation of the show is A. H. Wingett's Charles Lanier, a four-year-old, deep yellow in color, which may be appropriately described the Col. Appleton of the dahlias. The flowers, which came in excellent condition all the way from Lenox, are shown in one of the large vases occupying the centre of the stage in the lecture hall.

From "Dahlia News", September, 1907.
New Seedling Show Dahlia "Charles Lanier."

Twenty-four enormous perfect blooms of a bright yellow were exhibited in a large Japanese vase, and in effect it equalled the best vase of Chrysanthemum. The special merit of this variety is the extreme length of stem, three feet or over, which makes it a most desirable variety for cutting. In size it equals any exhibition variety of show.

Plants to be delivered in May. Special prices to the trade only, as follows: Per dozen plants, \$3.50; 25 plants \$6; 50 plants \$11; 100 plants \$20. Orders to be filled in rotation as received.

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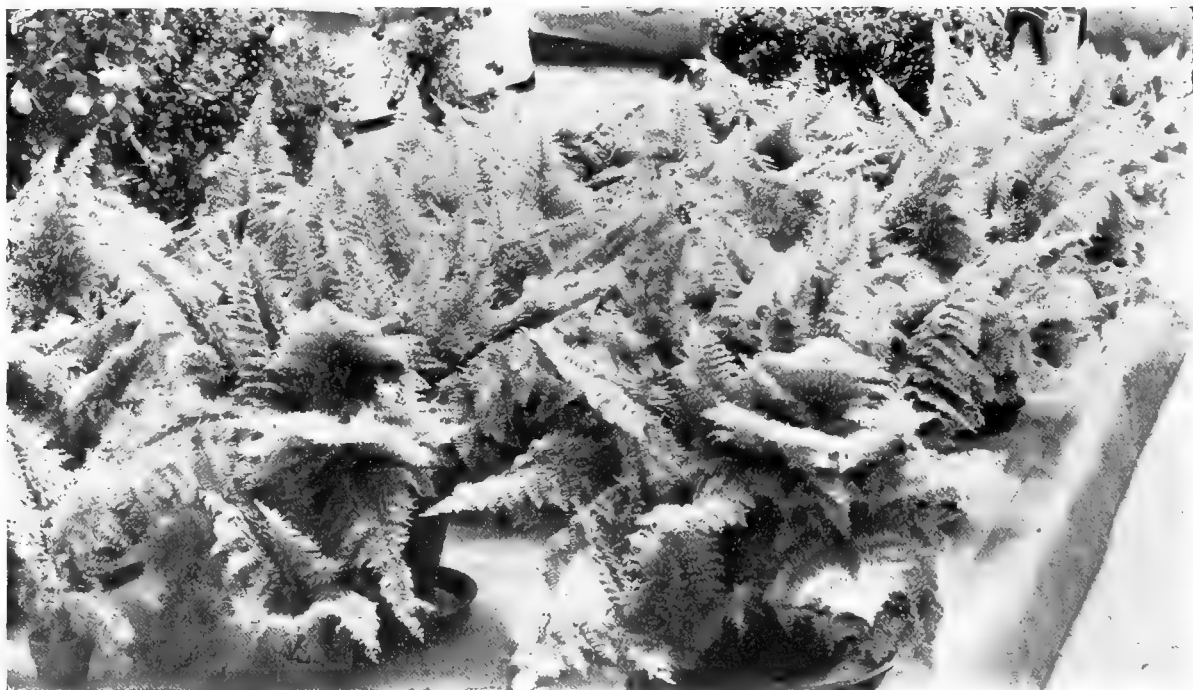
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WHITMANII, etc. These are splendid selling plants for the Holidays. We offer exceptionally good value in the 6 in. and 8 in. sizes. Plants are in perfect condition and are exceedingly good value at the prices quoted. You will find no better selling plants than these beautiful ferns, and we offer them at lower prices than ever before.

2 1/4 in. pots, \$6.00 per 100; 3 1/2 in. pots, fine perfect little plants, \$15.00 per 100; 6 in. pans, 50c and 75c. each; 8 in. \$1.00 and \$1.50 each; 10 in. \$2.00 each; larger specimens, \$3.00 to \$5.00 each, according to size.

NEPHROLEPIS SCOTTII. Fine plants, 6 in. pots, 50c. each.

NEPHROLEPIS BOSTONIENSIS (The Boston Fern). 6 in. pots, 50c. each; 8 in., \$1.50 each.

SMALL FERNS FOR FERN PANS

There is nothing that sells better during the entire winter than small ferns for fern pans. We have a splendid stock of extra strong plants in 2 1/4 in. pots in the hardiest and most useful varieties for this purpose. Our stock will be found very strong and very nice.

\$4.00 per 100, \$30.00 per 1,000.

SURPLUS BULB STOCK

We offer what remaining bulbs we have at bargain prices. The only cheap thing about them is the price. The bulbs are of first-class quality and in perfect condition. Bulbs planted in December, and even as late as January, can be had in fine shape for Easter; and as Easter is late this spring (April 19th), they can be planted later than usual. If you have not all the bulbs you want, this is the last opportunity to get them. We offer an exceptionally fine lot of hyacinths, tulips and the choice varieties of narcissus at bargain prices.

Send for our surplus list.

WINSOR CARNATIONS

We have a splendid stock of strong rooted cuttings ready for immediate delivery. In order to get the best results from Winsor, it should be planted early. Now is the time to get gilt-edged stock. We have a splendid lot of cuttings ready for immediate delivery, and can also furnish strong established plants from 2 1/4 in. pots, fall propagation. **Strong rooted cuttings, \$6.00 per 100, \$50.00 per 1,000.**

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CHRISTMAS 1907

The financial flurry is over, and trade will be good for those who properly prepare for it. We offer the following, all in first class condition :

- NEPHROLEPIS AMERICOHLII**, The Philadelphia Lace Fern. This, we believe will be the best selling plant we have for Christmas; everybody is fascinated by its exquisite grace.
4 inch pots at \$.50 each.
6 inch pans at \$12 per doz.; this size is very desirable.
8 inch pans at \$2 each.
10 inch pans at \$3 to \$4 each.
Large oval pans, very fine, at \$5 and \$6 each.
2 inch pots (for growing on), \$25 per 100; \$200 per 1000.
A purchase of these young plants will be a good investment for next year; it multiplies rapidly.
- NEPHROLEPIS TODEAOIDES**, The London Fern.
2 inch pots at \$25 per 100; \$200 per 1000.
6 inch pots at \$9 per doz.
- NEPHROLEPIS SCOTTII**, exceptionally well grown.
8 inch pots at \$1.50 each.
6 inch pots at \$6 and \$9 per doz.
5 inch pots at \$4 and \$5 per doz.
- ADIANTUM HYBRIDUM**, 2 inch pots at \$5 per 100.
- ASPARAGUS PLUMOSA**
2 inch pots at \$4 per 100; \$35 per 1000.
3 inch pots at \$7 per 100; \$65 per 1000.
- ORANGES**, with from 4 to 10 fruit at \$.25 per fruit. The small ones in 4 inch and 5 inch pots are particularly attractive.
- FICUS PANDURATA**, The famous decorative plant; nothing more satisfactory for the house.
Good plants in 6 inch pots, single stems at \$3 each.
7 inch pots, single stems, 4 feet high at \$4 each.
5 feet high at \$5 each.
Larger plants, both single and branched stems, at \$6, \$7.50 and \$10 each.
The plants from \$4 up are extra fine; good value for the price.
- PANDANUS VEITCHII**, well colored.
4 inch pots at \$.40 each; fine for basket work.
5 inch pots at \$.50 each.
6 inch pots at \$.75 and \$1 each.
- BEGONIA GLOIRE DE LORRAINE**, without doubt the finest we have ever grown.
3 inch and 3½ inch pots at \$20 and \$25 per 100.
5 inch pots at \$9 per doz.
6 inch pots at \$12 and \$15 per doz.
8 inch pots at \$2, \$2.50 and \$3 each.
- BEGONIA TURNFORD HALL**, 6 inch pots at \$1 each.
- HOLLIES**, well berried, at \$4, \$5 and \$6 each.
- POINSETTIAS**
3 inch pots, short for pans, \$12 per 100.
7 and 8 inch pots, 3 plants with fern at \$.75, \$1, \$1.25 and \$1.50 each.
8 inch pans, short with fern, at \$1.25 each.
10 inch pans, short with fern, at \$1.50 each.
6 inch pots, with fern, at \$.75 and \$1 each.
- CYCLAMEN**
5 inch pots at \$.35 and \$.50 each.
6 inch pots at \$9 and \$12 per doz.
- AZALEAS**. We have the finest lot of Azaleas we have ever grown for Christmas, including Mardner, Vervaeneana, Thiers, Petrick and Pauline Mardner, at \$1, \$1.25, \$1.50, \$2 and \$2.50 each.
Larger plants of Vervaeneana and Mardner from \$8 to \$7.50 each.
Pyramid Vervaeneana at \$3.50 and \$4 each.
Pyramid Petrick at \$1.25 each.
- CROTONS**, well colored plants.
4 inch pots at \$25 per 100; \$3 per doz.
4 inch pots, new highly colored varieties, at \$.50 and \$.75 each.
5 inch pots, general collection bright colors, at \$.50 each.
Larger plants at from \$1 to \$5 each.
- DRACAENA TERMINALIS**, the highest colored and best grown we have ever had.
3½ inch pots at \$3 per doz.; \$25 per 100.
5 inch pots at \$6 and \$9 per doz.
6 inch pots at \$12 per doz.
2½ inch pots, well colored, at \$15 per 100.
The latter are fine for baskets, hampers, etc.
- DRACAENA AMABILIS**, an excellent keeper, well colored.
5 inch pots at \$9 per doz.
6 inch and 7 inch pots at \$1 and \$1.25 each.
- DRACAENA MASSANGIANA**, fine, perfect plants of this excellent variety.
6 inch pots at \$1.25 and \$1.50 each.
5 inch pots at \$1 each.
- DRACAENA FRAGRANS**, perfect plants, 6 inch pots at \$6 per doz.
- DRACAENA SANDERIANA**, 2½ inch pots at \$12 per 100.
- SOLANUM CAP.**, well berried, 6 inch pots at \$4 per doz.
- BOXWOOD**, exceptionally fine value at \$1.50, \$2, \$5, \$6 and \$9 per doz.
- AUCUBAS**, heavily berried, in 6 to 8 inch pots at \$9, \$12 and \$15 per doz.

Kindly let us have your order early so that we can reserve fine stock for you

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Five or more cases \$4.00 each

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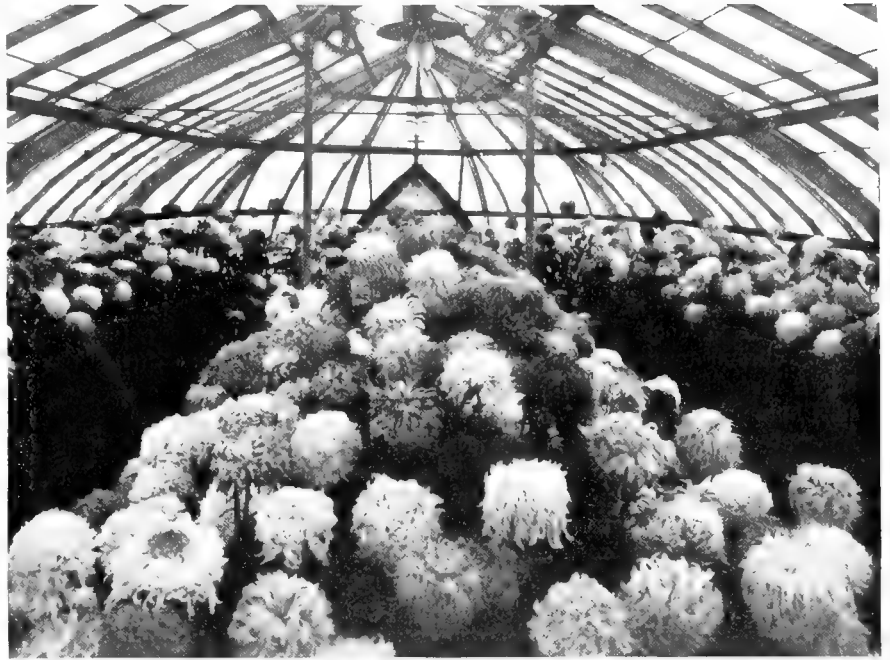
S. P. STRATTON, Treas.

Chrysanthemums in Pittsburg

Our frontispiece illustrates the central palm house of what is said to be the largest range of conservatories in Pittsburg—that of Mr. A. R. Peacock, under the efficient management of T. P. Jenkinson. Here are about 25,000 sq. feet of glass devoted to palms, ferns, stove plants, orchids, cyclamens, chrysanthemums, begonias, roses, carnations, etc. This conservatory was erected by Lord & Burnham Company. We are indebted to the staff photographer of the Gazette Times for the photograph.

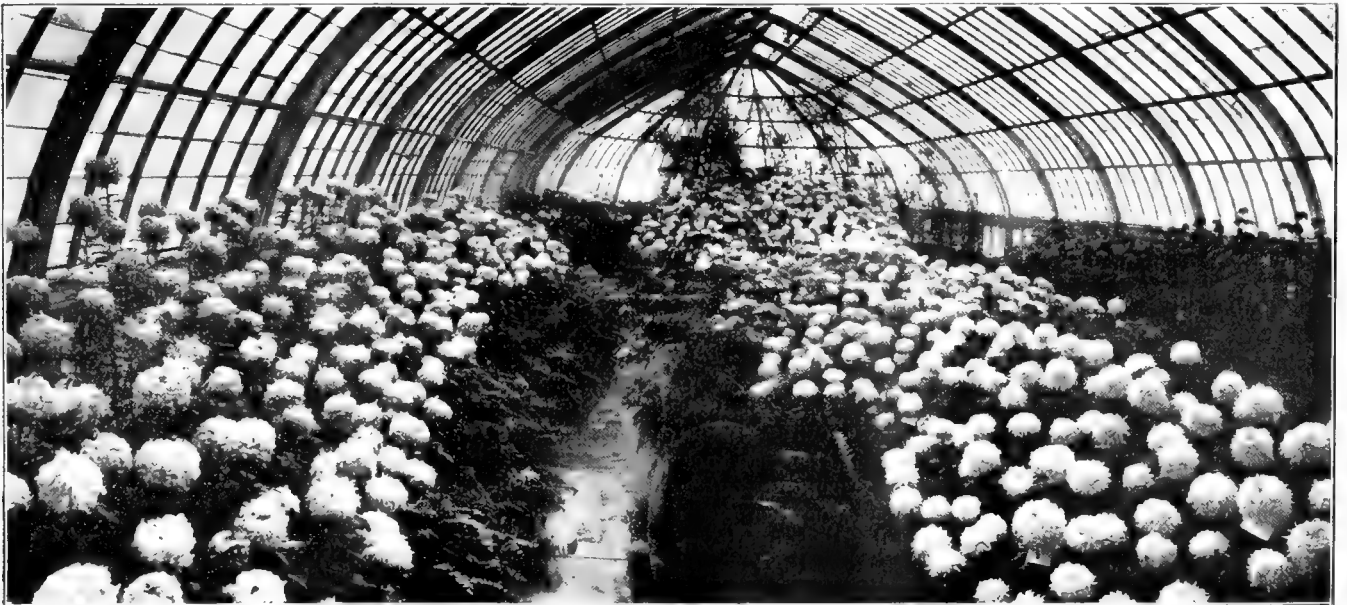
Mr. Jenkinson seems to have solved the problem of growing carnations in a city such as Pittsburg. The solution is early propagating.

He propagates in November and winters his plants in cold frames, having nicely-rooted plants to plant out, or pot on in spring. The stems on Enchantress, Lawson and Winsor are now 20 to 24 in. The large photograph at the bottom of this page gives an excellent idea of one of the greenhouses at Shenley Park during the recent Chrysanthemum Show there when Superintendent J. Jones regaled a Pittsburg multitude with a display of nearly ten thousand plants. The view in the conserv-



CHRYSANTHEMUMS AT THE FRICK CONSERVATORIES, PITTSBURG, PA.

atories of H. C. Frick gives good evidence that Superintendent David Fraser is the peer of any of his fellows in chrysanthemum culture and a worthy representative of the Chrysanthemum Society of America as its secretary. As our Pittsburg correspondent intimated in a recent issue of *HORTICULTURE*, success in cut flower production in the smoky, gassy atmosphere of Pittsburg is no mean accomplishment. We are glad to be able to show, however, that it is not an impossibility.



CHRYSANTHEMUMS AT SCHENLEY PARK, PITTSBURG.

Roses Under Glass.

GRAFTING

That grafted roses are steadily gaining in favor is beyond a doubt and the increase in the number of growers who are devoting space to this kind of stock would seem to indicate that the results have been satisfactory.

All soils, however, are not favorable to grafted stock, and before planting extensively the grower should ascertain whether grafted stock would be more remunerative than own-root stock in his own particular class of soil. In many of the heavy soils, the product of own-root stock exceeds in quality, and often in quantity, that of grafted stock. Also we must consider the varieties we intend to grow. Killarney and Bride will do well on Manetti in rather light sandy soil, while Beauty and Chatenay succeed best on their own roots. Those who contemplate doing their own grafting should soon get in their supply of Manetti. These should be potted and placed in a cool house, the temperature of which may vary from 38 degrees to 50 degrees, according to the length of time allowed them to make roots. Low temperature is necessary to keep the buds from starting before the stock has made a sufficient number of roots to give an immediate supply of sap to the newly attached scion.

The season when grafting can most successfully be performed is in the months of January, February and March as, during this period, conditions of temperature, moisture, etc., are more easily controlled than when the season is further advanced.

One of the chief essentials in this method of propagation is to have a suitable bench or frame to contain the plants when grafted. The style of the frame matters little providing it meets the requirements in other ways. The bottom should be about eighteen inches above the heating pipes, and the same distance below the sash covering or top of frame. The sides and ends should be boarded up, leaving spaces a few yards apart with doors attached, to serve as ventilators and to regulate the heat contained in the interior. There should also be a sufficient number of pipes under the frame to insure a minimum temperature of 80 degrees during the severest weather. When completed the frame should be practically air-tight. Material, upon which to set the plants may be obtained by sifting the ashes from the boiler room. This also serves to retain the requisite amount of moisture in the frame.

The selection of wood for grafting should be made by one who thoroughly understands the work, else there will be trouble later on. It is not advisable to experiment with soft, pithy shoots. The wood for the scions should be of about the same quality as that recommended for cuttings.

The most common style of graft employed on commercial places is the whip graft, and as expediency and speed are objects to be attained, this style of graft is, perhaps, best suited to the purpose. The mechanical part of this method of propagating is quite simple. With a sharp knife a cut about three-quarters of an inch in length is made in the stock. A corresponding cut is then made in the wood or scion, and the two parts placed together. The scion should be tied firmly in place with some soft material but not so tight as to cause an abrasion of the bark, at the same time taking care that there is direct communication between the layers of bark in all the parts to be united. The woody

parts of stock and scion never unite, but are so covered over by outer growths that the fact is not apparent unless the part is dissected.

When the first batch of plants have been grafted they should be thoroughly watered and placed in the frame, which should be kept closed as much as possible during the first few days until the union has taken place. When this occurs a little air may be given for a short time during the day, gradually lengthening the exposure as the plants become hardened.

When sufficiently hard to withstand the full effects of the outer temperature the plants may be treated similarly to own-root stock, excepting when syringing, which operation should be performed with exceeding care and small force of water, until they receive the support of stakes, which should not be withheld very long after the plants are taken from the frame.

J. E. Simpson

A New Rose Stock

It is singular how generally the Manetti and the Dog Rose have been relied upon as stocks, on which to work the hardy varieties of roses for open culture. These stocks have the merit of vigorous growth, which they impart, in a good degree to the graft. But this vigor often proves an evil in producing suckers which overpower and ruin the graft. Still they have held the field surprisingly and I am inclined to think without sufficient competition with other stocks, to determine their comparative merit.

At the recent convention of the American Pomological Society, at Jamestown, I met a nurseryman, who informed me that he was using the Madam Plantier for all classes of roses and with uniform success. His location is in Florida, where he can make his cuttings in the fall, in the open ground and find them well-rooted in the early spring. These are ready for budding by the 1st of May and the bud will make a growth of from one to three feet by the end of the season, the growth varying with the vigor of the variety.

It is apparent that this is a product at a minimum cost. The question now is as to its value. The following points may be stated in regard to Madam Plantier. It is a higher type and texture of wood than the Manetti and Dog; it is equally vigorous and hardy; it roots as readily as a willow and most important of all and unlike the others, it does not throw up suckers. This last quality, if it proves persistent, will insure its popularity. It remains to be proved whether all classes of roses will take kindly to it and will yield products which will compare with the blooms from the Manetti. A single season, a single trial is not sufficient. Time alone will decide as to the compatibility of the union. This however is certain, that plants will be turned out by this process by the million and at a cost which should distance foreign competition.

Wm C. Strong

Waban, Mass.

British Horticulture

A FAMOUS GARDEN

Prominence has lately been given to the magnificent gardens of the Earl of Pembroke at Wilton House, Salisbury, owing to the fact that the German Emperor during his recent sojourn in Hants had planted a tree there. The grounds are adorned with a fine collection of cedars of Lebanon, some dating from 1640, besides evergreen oaks, *Thuja gigantea*, rare specimens of abies, and several memorial trees planted by illustrious persons. Some of the rose houses have been standing 120 years. Roses cultivated for cutting all through the winter, the varieties being chiefly *Niphetos*, *Souvenir d'un Ami*, *L'Idéal*, and *Marechal Niel*. Carnations are grown in variety, those in the rose section including *Winter Cheer*, *Enchantress*, *Harlowarden*, and *Lieut. Peary*. Fruit culture also receives considerable attention from Mr. T. Challis, the head gardener. Fruit trees are grown in the goblet form, the chief object of this method being to get the maximum of light and air. There are twelve branches to each tree; each tree is about seven feet high, and the branches are 18 inches from the ground. Most of the apples grown in this manner are for late use. As regards grape culture, Mr. Challis states: "I am rather fond of growing the varieties separately—in fact there are some which should always be cultivated alone. *Hamburgh* and *Madresfield Court* should never be grown in the same house. The conditions which suit *Hamburghs* cause *Madresfield Court* to crack. I have seen them growing together, and the *Madresfield Court* were splitting because the variety would not stand the same amount of moisture which is necessary to the growth of *Hamburgh*. I crop *Madresfield Court* heavily every year, and I never have any split grapes."

NEW ROSES

This year has brought to the front a number of new roses, seven of which have been awarded the National Rose Society's Gold medal. These are *Dorothy Page Roberts*, *Harry Kirk*, *Lady Helen Vincent*, *Mrs. Harold Brocklebank*, *Souvenir of Stella Gray*, *Mrs. Stewart Clark*, and *Queen of Spain*. Six of these were raised by Irish nurserymen, and the seventh emanated from Surrey. It is certainly highly creditable to the trade in Ireland in being able to raise so many meritorious novelties. The Irish rosarians are also usually to the fore as prize winners at the National Show, attesting to the high standard being reached in cultural skill, as well as success in hybridising. Referring to the new roses a "Garden Life" contributor states: "It is significant that there is not a hybrid perpetual among them; they are all teas or hybrid teas—chiefly the latter. *Harry Kirk* will probably prove to be one of the finest outdoor yellow roses in existence. *Dorothy Page Roberts* is described as coppery-pink suffused with apricot yellow, but this does not give much idea of the real color. *Souvenir of Stella Gray* has rather smaller flowers than the others, but they are very charming, orange and yellow mixed. I am glad to see so many of the newer roses described not only as continuous bloomers, but also as deliciously fragrant. At one time it seemed as if hybridists attached no importance to scent—probably because no points are assigned to it at exhibitions. This is a mistake which should be rectified."

W. H. Adsett.

Plants Worthy of More General Cultivation

Plumbago rosea coccinea is a plant that ought to make a valuable addition to our Christmas flowering subjects. It is easy to handle and comes into bloom at the right time if treated properly. Its habit is good, making a nice compact plant from one and a half to two feet in height. The flowers, which are of a reddish color are produced in long panicles at the ends of the branches and last in good condition for several weeks.

When the old plants have done blooming they are cut back and induced to make young growth. This new growth makes good material for cuttings which are inserted into clean, sharp sand in the propagating bed where they soon make roots. When the cuttings are rooted they are put into three-inch pots and are shifted along regularly as they require it until they are large enough for six-inch pots. They require frequent syringing and when the plants are growing freely the points of the shoots are pinched out to make the plants more bushy. The soil that suits this plant is one composed of rough loam with a little well-rotted cow manure and enough sand to make it porous. In September the plants are placed in a greenhouse where the temperature ranges from 55 to 60 degrees and where they can get plenty of light; in such a position the flowers are of a much brighter color.

The *Reinwardtias* are old-fashioned East Indian plants belonging to the flax family. They are certainly the best yellow flowered plants we have at this season. *Reinwardtia trigyna* is the best of the species. It makes low bushy plants which are completely covered with good-sized flowers of brightest yellow. They are easily and quickly grown from cuttings and make good plants in one season. The flowers are rather fugacious but are produced in such abundance and in succession that they make a capital show for several weeks. A house with the temperature given to roses seems to give the best results.

In blue flowers the finest thing we have is *Browallia speciosa major*. It lasts a very long time in bloom. Seeds sown in early spring give fine plants in five inch pots for Christmas. During the winter they are given the same treatment as the *Reinwardtias*. In summer while they are growing freely the points of the branches are pinched out so as to make them more compact and bushy.

Robert L. Linn

A Choice White Orchid

We have received by express from George McWilliam of Whitinsville, Mass., a spike of *Dendrobium formosum* bearing thirteen open flowers, each of which measures from 3 and 3-4 to 4 inches across. Mr. McWilliam says that the plant from which the spike was cut has flowered for nine years consecutively and is likely to do so for many years to come. It is not to be expected that every gardener can entice a plant to do what George McWilliam seems to draw from it in his easy, unassuming way but we do not hesitate to say that at the prices that this sweetest of white orchids always commands in the most select cut flower markets no orchid grower would make any mistake in investing liberally in this plant.

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Our
 thanks to
 our friends

Again, at the close of another year of progress on the lines which we believe go to make a paper worthy to bear the honored name of HORTICULTURE, we extend greeting to those friends and supporters who have stood by us and with us from the start and the many besides who have been pleased to add their name from time to time to our rapidly lengthening list of appreciative patrons. During the three delightful years that have passed since our entry into the journalistic field many changes have taken place—some pleasant, some sad—but the progress of American horticulture has been uninterruptedly upward and it is with rare satisfaction that we listen to the frequent assurances which come to us from friends at home and abroad that in the advancement which has been made HORTICULTURE is recognized as having borne an honorable part. To the host of friends and well-wishers whose generosity and loyalty have made possible the success which has thus far crowned our labors we extend our appreciative and grateful thanks.

Poor
 outlook for
 low grade material

Judging from reports as received from widely separated localities and from what we have had opportunity to see in various markets it seems likely that the public will be afforded the opportunity this season of buying the best flowers, the best plants and the best material altogether that have ever been provided for their holiday demands. The only apparent exception is the native holly which seems to be inferior, generally. The quality of all the staples grown for the cut flower markets of the great cities, especially, has been advancing steadily from year to year and material which would have found appreciative buyers a few years ago is today contemptuously spurned even by the street fakirs. Nothing is more noticeable in the wholesale flower markets than the widening divergence between the prices realized on first-class stock and the returns from that of lower grade. In fact, the grower whose abilities or whose equipment do not admit of his producing a fair proportion of high-grade stock must before long, it would seem, be forced to abandon the metropolitan wholesale markets and find what consolation he can in the disposal of his product through local channels where competition on quality is less keen and buyers are less critical.

The
 advantage
 of modern houses

The prices of cut flowers are much below the record for corresponding dates for past years. Whether they will remain so no one can predict for flowers are very susceptible to influences of a transient nature and the "why and wherefore" are not always apparent even to those who should be best judges of the market's tendencies. While it is difficult to set a cost figure, even approximate, on the cut flower product of an establishment yet it does seem as though the limit of safety had been about reached in the prices realized in the wholesale markets this season and that, unless a change for the better takes place very soon, the prospects for the small, antiquated greenhouse establishment which hitherto has furnished its owner with a livelihood and something more, are not at all encouraging. Some observant people look upon the shrinkage of flower values and

growers' profits as likely to exercise a deterrent influence on greenhouse building. It does not follow that this is so. Many take the opposite view and have little difficulty in figuring out the increased efficiency of structures of modern type and concluding that if the flower grower must face lower prices for his goods the man with a modern equipment is the one best able to stand it.

Possibilities in flower shipping

The wholesale florists and plantsmen are once more to the front with their offers of tempting goods for the suburban and country florists' holiday stock.

For various reasons the flower shipping trade has in many centres dwindled to very small proportions as compared with its extent a dozen years ago. It should not be a hopeless task to revive it. There can be no argument now as to the superiority of much of the stock seen in the wholesale market districts to the average stock carried by dealers in localities well removed from these centres. The present would be a good season for the out-of-town florist to make a trial and see how far his local buyers may be coaxed along in the direction of an extra price for a grade of stock superior to what he has been providing for them. We think he will find the wholesale dealer more than ready to meet him and help demonstrate the feasibility of regular flower shipments under the favorable inducements which present conditions admit of. The firms that advertise holiday goods in this issue are all well-prepared for any such business which may be entrusted to them. We bespeak for them the generous support of those of our readers who are interested in the class of material they offer, because we are convinced that the resultant benefits will be mutual.

Cold Storage Lilies

For the past few weeks the New York cut flower market has been amply supplied with fine lily flowers grown from cold storage bulbs of the *L. longiflorum* and its giganteum variety. The *Lilium multiflorum* variety is less adapted for keeping over, as the bulbs seem to be less durable and they do not give as satisfactory results as the other varieties.

Cold storage lilies have been used for quite a number of years in Europe—in England in particular—and have proved to be a well-paying proposition. One of the first to grow them in large quantities in preference to *Lilium Harrisii* was Thos. Rochford at Turnford Hall near London. The main difficulty lies in starting them in the right way. It must be remembered that the bulbs are kept in a temperature near the freezing point in the cold store and when taken out in the summer months they should be placed in as cool a temperature as possible after being potted. A cool cellar perhaps would be the best place to start them. We have seen them covered with burlap and blocks of ice put close to them to keep the temperature down until the bulbs were thoroughly rooted and started to sprout. This having taken place they should then be taken out and placed in the coolest house.

Growers who have their own cold storage connected with their greenhouses have an easy task to start cold storage lilies but those who are not so fortunate may easily overcome this difficulty by making a trial as mentioned above and we have no doubt they will be successful.

Primula stellata



A USEFUL LITTLE CHRISTMAS PLANT.

A Choice Decorative Group

We often see what are called artistic and decorative groups at our English shows but there is an indescribable charm about some of the French floral compositions that defy words. M. Lachaume, the eminent florist of the Rue Royale, Paris, is one of the greatest experts in the floral art we know of but there are others who put up at the Paris shows some compositions that might well be studied by our floral decorators and exhibitors at English shows. Here lumpiness often takes the place of that light and dainty arrangement joined with a judicious blending of color we so often see in France. It is as the brick-layer said to the Bishop who complained of the use of bad language, "You can't learn it, governor, it is a gift." It is an outcome of the natural temperament, and this is seen in many other ways.

In the orchid room at the Paris Show Messrs. Truffaut & Son of Versailles put up a delightful group of decorative plants, etc. Graceful, ornamental foliage plants, etc., were grouped together in a way that at once arrested the visitors' attention. No crowding, everything light, tasteful and in the most perfect harmony. Among the subjects employed we noticed *Nephrolepis Whitmanii*, *Croton Pres' Demole*, *C. Maurice Rouvier*, *Anthurium Andreanum*, *Dracæna Versailleuse*, *Areca Verschaffeltii*, *Dracæna Godseffiana*, *Ixora Dixiana*, *Croton Reedi*, *C. B. Comte*, *Alpinia Sanderæ*, *Pandanus Veitchii*, *Maranta insignis* and others.

Chasman Payne

NEWS OF THE CLUBS AND SOCIETIES.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The meeting on the 3rd had for its subject "Late Chrysanthemums and Xmas Plants." Nathan Smith & Son, Adrian, Mich., showed three vases of pinks, yellows and whites. Season after season has this firm favored our club with large displays of high-class flowers and none of our chrysanthemum shows are complete until the Michigan consignment arrives.

The suggestion of Mr. Falconer at the last meeting that prizes be offered for flowers grown by private gardeners, members of the club, was discussed with approval by several of the members with the proviso that it be broadened to include the commercial growers as well, and it was finally carried that the meeting in February—Carnation Night—should be a competitive one. The galvanized iron hot-bed sash shown at the last two meetings was again on exhibition in an improved form.

H. L. Blind & Bros. showed a fine collection of Christmas plants including begonia Gloire de Lorraine. Phipps Conservatories showed poinsettias, ardisias and euphorbias.

Mr. Falconer stated that he had been given by Mr. Smith of the Botanic Gardens, Washington, three young oaks, offspring of the famous Crittenden oak, and he would present one to the Club which President Jones accepted for planting in Schenley Park. Discussion on Thanksgiving sales showed there was a falling off.

As Pittsburgh and Allegheny are now one city, Pittsburgh, it was the sense of the club that the word "Allegheny" should be dropped from the club name.

Subject for next meeting, "Roses."

H. P. JOSLIN, Secretary.

WASHINGTON FLORISTS' CLUB.

There was a meeting of Washington Florists' Club at Gude's Hall on Dec. 6. The chair was occupied by Vice President Z. D. Blackistone. Pres. Bisset has been seriously sick for some weeks past, due to a nervous breakdown, and according to his physician's orders he left the morning of Dec. 6 for New York, whence he will sail for Porto Rico for a stay of several weeks.

The sympathies of all were aroused over the sad death of P. J. Hauswirth, who was so well known in this city. A meeting of the executive committee was called by W. F. Gude, and it was voted that an order be given a Chicago house for a handsome wreath to be sent by the Florists' Club of Washington. Vice-Pres. Blackistone then appointed W. F. Gude, Jas. L. Carbery and J. J. Harty as a committee to prepare and bring in suitable resolutions on the death of Mr. Hauswirth.

It was announced that the exhibition of the American Carnation Society will be held in this city the third week in January. A letter from Mrs. Florence Harding was read, in which she thanked the W. F. C. for the flowers sent to the hospitals after the close of the chrysanthemum show.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the monthly meeting of the New Bedford Horticultural Society on Monday evening, David McIntosh, secretary of the Newport Horticultural Society, gave an address upon plants for Christmas decorations, and in the course of his remarks said the supply of plants for Christmas decorations was created by the demand, foliage plants being for the most part the most appropriate. But as there is some demand for flowering plants, the florist must be prepared to meet the situation.

For foliage plants the speaker recommended araucarias, cocos, dracaenas and crotons in varieties, and the Whitmanii form of the Boston fern, which he considered to be far superior to any of its relatives for elegance and staying properties. For church decorations he considered palms to be the most suitable. Some of the above-named plants, he thought, might be improved by the addition of a bow of ribbon. He also gave some very useful hints as to the use of inferior plants in grouping.

Among flowering plants Mr. McIntosh gave the first place to Begonia Gloire de Lorraine, which he considered, if accorded proper treatment, invaluable for Christmas decorations, but owing to the diversity of treatment it received at the hands of the wholesaler and the customer it was generally an unprofitable plant to purchase.

In the subsequent discussion the troubles of the florists were pretty well aired and the sympathizing audience was inclined to conclude that in the effort to supply a plant that would bear transmission from the torrid greenhouse of the wholesaler to the parlors of the customers, with the alternate roasting and freezing condition to which it is often subjected, the poor florist finds himself "between the devil and the deep sea."

THOS. WHITE.

SOUTHAMPTON HORTICULTURAL SOCIETY.

The regular meeting of this society was held in our new meeting room in Odd Fellows' Hall on Thursday, December 5th, President Clark in the chair, with the largest attendance since the society was organized. There was a fine exhibit of bougainvillea by President Clark. There were several very interesting discussions, among them being spring or fall planting for deciduous trees and shrubs. Messrs. Clark, Gray, Halsey, Palmer and Frankenbock argued in favor of spring planting. Mr. Crook contended that fall planting was the best. The subject of tree pruning was also taken up. At the next meeting on Thursday, December 19, there will be several exhibits of potatoes and discussions as to the best methods of growing them, after which a banquet will be held.

U. G. AGER.

VERMONT HORTICULTURAL SOCIETY.

The 13th annual meeting of this Society was held in Masonic Temple, Burlington, Vt., on December 4th. Very interesting discussions were had on the culture of apples, stone fruits, potatoes and other rural topics.

The following officers were elected: President, T. L. Kinney of South Hero; secretary, William Stuart of Burlington; treasurer, A. M. Vaughan of Randolph; auditor, L. H. Sheldon of Fair Haven; executive committee, the president and secretary of the society, and E. S. Brigham of St. Albans, F. E. Foote of Middlebury and G. H. Terrill of Morrisville.

President Kinney expressed himself in favor of a national fruit inspection law. He was in favor of a law which would protect every grower and injure none and which would likewise protect the buyer, and the society ought to keep the idea of such a law constantly in mind. We ought to have passed at the next Legislature a law calling for fruit inspection. Later, if a national measure for fruit inspection is adopted, the State law can be readily made to conform to it. Such reputation of Vermont apples, which has suffered in consequence of the dishonest practices of unscrupulous growers.

The following resolutions were adopted:

Whereas, the Vermont State Horticultural Society in its 13th annual meeting in Burlington experienced one of the most valuable meetings in its history;

Therefore, be it resolved that the society go on record as expressing its appreciation, first, to the city of Burlington and the University of Vermont for the hearty welcome extended; second, to the assistance visiting horticulturists have rendered our program and discussions; third, we continue to recommend a standard packing box, 10x11x20 inches for fancy fruit; fourth, we again express a desire that our State executive committee take measures to stamp out the San Jose scale; fifth, that we cordially invite all florists to join with us and thus make our display more attractive, also realizing that friendly competition aids all in fortifying their weak points.

There was an excellent display of fruits on exhibition.

H. M. Totman of Randolph was represented by a nice collection of flowers and plants.

DETROIT FLORISTS' CLUB.

The Detroit Florists' Club had an interesting session, discussing the probability of holding a flower show next February. Last year's practice of reading papers gotten up by members of the club was also discussed and will soon be revived. During the meeting it became known that P. J. Hauswirth met an untimely death and it cast a gloom over the whole assembly. Resolutions on his death were passed and telegraphed to the widow.

NEW YORK FLORISTS' CLUB.

The principal business for the December meeting of the New York Florists' Club, which took place on Monday evening, 9th inst., was the election of officers for 1908. Previous to this duty several committee reports were listened to, the most important being that of the committee on closer relations with other organizations, presented by Mr. O'Mara, which recommended an alliance with the Horticultural Society of New York on the basis of the payment of one dollar per member to make the Florists' Club in a body members of the Horticultural Society, but without the privilege of voting. Messrs. Young, Wallace, Barron, Lenker, Nash, Butterfield and Stewart participated in the debate and the subject was assigned to the next meeting of the Club. Joseph A. Manda reported on behalf of the judges, having visited the establishment of Robert Scott & Son at Sharon Hills, Pa., for the purpose of examining the new rose Mrs. Jardine. They had awarded it 92 points, which carries with it the awarding of a first-class certificate. The report was accepted.

When the time came for election of officers it transpired that every nominee for the position of president had declined. Nominations were called for and C. B. Weathered's name was again presented by Messrs. Stewart and O'Mara as the logical candidate. Mr. Robert Simpson, who was nominated from the floor gracefully withdrew and, on his motion Mr. Weathered was given the honor of unanimous election as president. Balloting for the other officers was then proceeded with, the result being as follows: vice-president, W. E. Marshall; secretary, re-elected without opposition, John Young; treasurer, J. K. Allen; trustees, E. V. Hallock, Al. Rickards and W. B. DuRie for two years, A. J. Guttman for one year. The successful candidates were severally called upon for speeches and President-elect Weathered was received with especial enthusiasm.

Notice was given of the death of the wife of A. M. Henshaw and of the Secretary of the S. A. F., P. J. Hauswirth, and Secretary Young was instructed to send a letter of sympathy on behalf of the Club.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

National Flower Show Premiums.

The premium list for the national flower show in the fall of 1908 is now undergoing final revision. Suggestions regarding the same, as to premiums to be offered, rules and regulations to be adopted, and other matters of the kind, are requested. Such suggestions, however, should reach the undersigned within ten days from this date in order to be considered.

W. N. RUDD.

Chairman Premium Committee,
Morgan Park, Ill.

NEW PRESIDENT AND VICE PRESIDENT OF THE NEW YORK FLORISTS' CLUB.



CHARLES B. WEATHERED

President-elect, New York Florists' Club.

We present herewith portraits of the first and second officers selected to command this influential organization for the year 1908. The president-elect needs no introduction for his name and his genial personality are known all over the country wherever a florist is to be found or a greenhouse heating apparatus is installed. Again, he has been an unselfish worker in the New York Florists' Club from its inception, and for nearly twenty years held the responsible position of



W. E. MARSHALL

Vice-President-elect, New York Florists' Club.

treasurer of that body. No man could possibly have been selected as more worthy to receive the highest gift in the power of the club or better deserving the compliment of a unanimous vote which was accorded him.

Vice-President Marshall was born in Edinboro town in 1872. He is a seedsmen of twenty years' experience, young, progressive and popular with seedsmen, florists and gardeners, and will make an excellent official.

NEW JERSEY FLORICULTURAL SOCIETY.

The annual election of officers was held on the 6th inst., when Malcolm MacRorie, who has served in nearly every official capacity since the organization in 1894, was again made president; Henry Halbig, who has served as secretary during the current year, vice-president; Orson A. Miller, an enthusiastic orchid collector, secretary; and William Read, re-elected treasurer. Three members of the Arbitration Committee were voted for, Philip Cox, Albert Larson and W. M. Gray.

The new rose, Mrs. Jardine, from Robert Scott & Son, Sharon Hill, Pa., was staged by Joseph A. Manda, in their behalf. Exhibits of cut orchid blooms by Julius Roehrs Co., of Ruthersford, and Thomas Jones, of Short Hills; carnations from the Colgate estate, grown by William Read; jonquils from Chas. Hathaway, grown by Max Schneider; chrysanthemums from Stewart Dickson, grown by A. Larson, and a collection of vegetables from Stewart Hartshorn, grown by A. T. Caparn. The February meeting was voted for a special smoker, and invitations to officers of neighboring societies ordered. Presentation of the minutes of the first floricultural society of the Oranges 1856-1859 was made through John Collins and placed in the archives of the society.

JOSEPH B. DAVIS.

WASHINGTON STATE HORTICULTURAL SOCIETY.

Five hundred fruit growers from various parts of the "Inland Empire" are expected to attend the annual convention of the Washington State Horticultural Society which will meet at Walla Walla, January 29 to 31. Three silver cups will be offered as prizes: for the best ten boxes of apples on exhibition; for the best fruit display regardless of quantity or variety; and for the best plate display of winter apples.

Fruit growers of the Walla Walla district are making preparations to display some of the finest fruit that can be grown in Washington. Growers who were a few years ago earning from \$100 to \$300 an acre from their fruit made this season from \$800 to \$1200 an acre and the reason is, not in better seasons and other similar conditions, but in the manner in which the trees and vines are tended. The fruit growing industry is attaining mammoth proportions in Washington, and in fact throughout the Northwest.

There will be in attendance at the coming meeting men from the famous Hood River fruit district in Oregon who will read papers on the methods used in that district, and delegates from Wenatchee, Chelan, Kennewick, Spokane valley and the Snake River country to explain the methods used in their localities.

GREENS, BERRIED PLANTS AND OTHER HOLIDAY STOCK

BOXWOOD (Cut Sprays) Indispensable for wreath making and decorative work. Clean, dark green sprays, put up in 50 lb. cases, 15c per lb. **CASE HOLLY**, extra choice, glossy, dark green and well berried, per case \$4.50, in 10 case lots at \$4.00 per case. **HOLLY WREATHS**, made full with plenty of berries and of selected foliage, (packed in cases of about 100) \$15.00 per 100. **LYCOPodium**, from the deep woods, extra color and quality this season, per lb. 10c. Prices of Greens subject to market fluctuations.

Also **Mistletoe**, **California Pepper Sprays**, **Galax**, **Magnolia**, **Clump Moss**, etc., etc.

CHRISTMAS PLANTS

HOLLY TREES: Extra well berried, beautiful stock in pots and tubs, from 4 ft. to 8 ft. high. \$3, \$5, \$7, \$10, \$12 and \$15 each.

BERRIED AUCUBAS: Unusually well fruited and nicely shaped—a very satisfactory house plant. 7, 8, and 10 inch pots. \$1.50, \$2, \$2.50, \$3, \$4 and \$5 each.

AZALEAS: Very choice and nicely set with flowers. Colors: Dark pink, red, variegated and white. \$1, \$1.50, \$2, \$3, \$3.50 and \$5 each.

COMBINATION PLANTS: Made up of Crotons, Dracaena Terminalis, Ferns, etc. These are well established, having been made up in September. 12 inch pans. \$3 and \$3.50 each.

BOUVARDIA: New scarlet variety, most appropriate color for Christmas, large bushy specimens, well covered with blooms. 10 and 12 inch pans. \$2.50 and \$3.50 each.

FARLEYENSE FERNS: Exceptionally fine, very bushy. 5 and 6 inch. \$1, \$1.50 and \$2 each.

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MARYLAND HORTICULTURAL SOCIETY.

On Wednesday, December 10, opened the great event for which earnest workers have been making preparations for many months—the tenth annual exhibition of the Maryland State Horticultural Society, at the Fifth Regiment Armory in Baltimore. With 60,000 square feet of floor space at their disposal the exhibitors had a grand opportunity and they made full use of it, putting up a show extremely creditable in every respect, fruit growers and florists pulling together in a manner that promises much for the future of this organization. The horticultural section of the Maryland Agricultural Society, under the enthusiastic management of Prof. T. B. Symonds, secretary of the society, contributed largely to the interest and success of the undertaking.

President Orlando Harrison, who has worked energetically for the society's welfare, made an interesting address at the opening. Mr. Harrison spoke approvingly of the prominence of Maryland's products at the Jamestown Exposition and advised a more general interest in fruit growing as a commercial enterprise. He recommended the teaching of horticulture in the public schools and advocated well-built State roads and parcels post. He said:

"We should study the laws of horticulture. It will be done more by specialists in the future, so you must not be an ignorant man for success; with the exercise of good judgment in the selection of soil and proper cultivation, it is a safe business. See what Maryland offers to the horticulturists—thousands of acres of land that will grow fruits, flowers or vegetables at a nominal cost and in a well-governed State. Brains and attention are as great dollar producers in an orchard as in a financial institution. Maryland ranks first for her enterprising men, and with the larger farms

divided into small ones our State has a great future."

Among the winners of first awards in the floral department of the exhibition were the following: J. P. King, Mt. Airy, for geraniums and Lawson carnations; Ed. Bishop, Roslyn, chrysanthemums; F. C. Bauer, Govanstown, carnation Beacon; John Cook, Baltimore, four firsts for roses and begonias, and silver medal for best American seedling rose, also Baltimore News prize for group of decorative plants; Pimlico Greenhouses, Park Heights, chrysanthemums; R. Vincent, Jr., & Sons, White Marsh, chrysanthemums and special mention for canna, dahlia and caladium bulbs; A. J. Tourney, Baltimore, mignonette; Andrew Anderson, Govanstown, American Beauty; Stephenson Bros., Govanstown, roses and certificate of merit for carnation Splendor; George Morrison, ten firsts for seedling foliage plant, begonias, orchids, chrysanthemums, palms, crotons, ferns, etc.; W. J. Hannigan, Catonsville, chrysanthemums and violets; Henry Fischer, Baltimore, American seedling chrysanthemum, special on group of ferns and flowering plants; F. H. Kramer, Washington, silver medal and diploma for rose Queen Beatrice; H. Weber & Son, Oakland, American seedling carnation; I. H. Moss, Govanstown, five firsts for roses, carnations, coniferous trees and shrubs, etc., and the Gardeners' Club prize for general display of flowers; Cottage Gardens Co., Queens, N. Y., special certificate of merit for carnations Mrs. Harvey, Mrs. Ward, Snowflake and Alma Ward; Park Department, special mention for exquisite group of ornamental foliage plants and pot chrysanthemums.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Committee on Prizes and Exhibitions for the year 1908 has been appointed as follows: J. K. M. L. Farquhar, chairman; Prof. C. S. Sargent, W. N. Craig, Edw. MacMulkin, Wm. J. Stewart.

MINNESOTA STATE HORTICULTURAL SOCIETY.

The society opened its 41st annual meeting at the First Unitarian Church on December 3d, with about 200 members in attendance. Despite the announcement of an "off year" there was an almost unequaled fruit exhibit in the basement.

Among prominent horticulturists present were G. B. Brackett, pomologist of the U. S. Dept. of Agriculture; C. G. Patton, Charles City, Iowa, one of the most noted growers of seedlings in this country; Prof. N. E. Hanson of North Dakota, who has been sent to Europe by the U. S. Government several times to study horticultural conditions there; W. H. Guilford, Dubuque, Iowa; Rev. C. S. Harrison, York, Neb.; G. A. Tracy, president of the South Dakota State Horticultural Society; Prof. C. E. Waldron, Fargo; Elmer Reeves of Iowa; A. J. Phillips, an apple expert from West Salem, Wis.; George S. Kellog, Lake Mills, Wis., the oldest strawberry grower in that State.

In his annual address, the president of the society, Prof. Samuel B. Green of the State Agricultural College, laid especial emphasis in reforestation. Many interesting papers concerning fruit raising and other branches of horticulture were read. Among them were those of A. P. Pierce, mayor of Red Wing, on "Civic Improvement"; "Rose Culture for the Minnesotan," Chas. Nordine, Lake City; "Border Planting," Theodore Wirth, Minneapolis; "Winter Protection of Flowering Plants," John Hawkins, Minneapolis; "Propagation and Early Cultivation of Perennials," C. S. Harrison, York, Neb.; "Breeding 'New Roses,'" John Monson, Minneapolis Floral Co.; "Breeding of Apples," C. G. Patton. "Treatment of Ground in Adult Orchard," "Harvesting and Marketing Apples," and "Spraying the Orchard and Garden" were short papers which brought on a lively discussion. One of the most interesting addresses was on "Nut Culture," given by H. S. Fair-

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child of St. Paul. Another interesting paper, "Shrubs and Trees for Lawns and Parks," was read by W. H. Guilford, delegate from the Iowa Horticultural Society. Messrs. Le Roy Cady and A. R. Kohler of the State Experiment Station, gave practical demonstrations in cross-fertilization, grafting, budding, etc.

In connection with the Horticultural Society, the Woman's Auxiliary, with Miss Emma White, president, in the chair, met on December 4 and had various important discussions pertaining mostly to improvement work.

In the afternoon of December 5 the Minnesota State Forestry Association (affiliated with the horticulturists) met with S. M. Owen, president, in the chair. Several papers showing the importance of reforestation, etc., were read.

The morning of December 6 was given over to the Plant Breeders' Auxiliary, T. M. Underwood, president, in the chair.

A. J. Phillips and S. D. Richardson spoke in memory of the members who have died during the past year.

The annual report of the seedling committee was read by T. M. Underwood, Lake City. The opening address of the Minnesota Rose Society was given by the president, Mrs. H. B. Tillotson. Mr. A. W. Latham, secretary of the State Horticultural Society for the last 16 years, gave a very interesting report.

Treasurer George W. Strand read the financial report, showing the society to be in a flourishing condition. The reports of the vice-presidents of the various congressional districts gave some ideas of what should be done to further the interests of the society.

All the officers, with the exception of the nine vice-presidents, were re-elected.

A resolution was passed inviting the National Peony Society to meet with the Horticultural Society in a two days' session in 1909.

C. N. RUEDLINGER.

This is without doubt the best society in the United States, if not in the world. The attendance was the largest known, notwithstanding the financial flurry.

We mention some reasons why the society has reached such a high degree of efficiency.

1st. It had unusual difficulties to

overcome which tested their courage and persistence. The first orchards were of Eastern fruits and they were wiped out of existence. After infinite pains, hardier fruits like the Duchess and Wealthy were introduced. A terrible winter knocked out the foundation, for the stocks were not hardy. Then old Boreas with frozen mercury in one hand and his terrible scourge of the north wind in the other, told them in plain language never to invade his domains again. Then the blood of heroes tingled in their veins. They took up the challenge. They had charged by rushes before, but now with siege-like patience slowly and surely they built up the hardy iron-clad—hardy from lowest root to highest branch, they originated a new horticulture, creating a new race. As the result, the apple crop this unfavorable year was simply enormous, and they had on exhibition probably a finer collection than any state in the Union.

2nd. Another cause of their success is their intelligent and heroic leadership, backed by over 2,000 loyal members—all thrilled with enthusiasm and assured of victory; probably a more determined and devoted band never lived. Many of the early heroes, with Peter Gideon have passed away, but the inspiration of their lives yet remains. Others took up their work as soldiers grasped the flag from a fallen comrade and rushed to the front.

We mention some of the present leaders:

The President, S. B. Green, is Professor of Horticulture in the State University, a man of large experience and acknowledged authority in planting, all over the northwest. He is an author whose instructions are received without questioning. In manner he is prompt, genial and forceful and is in great demand as a speaker in other States. He has a fine voice and clear-cut expression, having the ability to tell what he knows in a convincing manner. In Nebraska where he addressed the United Societies, he had about a thousand hearers who went away delighted as from an intellectual feast. His promptness and enthusiasm thrilled the whole assemblage, keeping them in the best of humor, and at the highest working tension.

The Secretary, A. W. Latham, is without a peer. He is a practical horticulturist—an educated man, and one of the best organizers we ever

knew. He took hold of the society in its half-formed state and brought order out of discord, and in some way infused confidence, enthusiasm and hope among the members, so he has the largest society in the United States, if not in all the earth. He is always at it, keeping his office well-stored with books and periodicals open all the year around, and the influence of the society reaches out beyond the State and is the center of influence through all the great Northwest.

Prof. N. E. Hansen, of South Dakota, the Wizard of the North, is a member and is always here. He is one of the busiest men on the list, pulled this way and that by one and another, who are anxious to draw all the information possible out of him. He has gone into the very holy of holies of good old Mother Nature, and is helping her to work miracles. By careful selection and crossing, he has produced wonderful results. He is doing for the bleak Northwest, what Burbank is for the Pacific Coast. We have seen some of his new creations and they are marvels. By crossing prunus Pisardi with the improved Besseyi, he has secured the finest ornamental shrub which will endure the cold of forty below. He is breeding plums, strawberries and raspberries which need no covering out on the bleak prairies of the Dakotas. He displayed a giant growing tree, his hybrid of wild plum and Chinese apricot; and told of his successful search for a hardy alfalfa in Siberia in a trip around the world last year for the U. S. Dept. of Agriculture.

C. G. Patton, of Charles City, Iowa, is the King of pomology. For forty years he has been engaged in developing hardy apples for the Northwest. He had on exhibition fifty-five varieties—seedlings evolved by the most patient and persistent efforts. Thirty-five years ago he produced "Patton's Greening," a cross between the R. I. Greening and the Duchess, giving the excellence of one and the hardiness of the other. This is one of the most prolific of the race and has or will add millions to the wealth of the Northwest. The pity of it all is that his efforts receive but little compensation. He seems to be going the same way good old Ephraim Bull went, who died in the Old Man's Home, a carefully disguised name for the poor-house. Mr. Patton has put his very life in the work, and is now

seventy-five years old, and says he pathetically. "I have got where I can't keep on and can't let go." His grand work has reached a climax, where he must have help.

Wyman Elliot's more than three score and ten years seem to sit lightly on his shoulders. He has produced several hardy apples and also a gooseberry which for size and prolificness seems to fill a vacant space.

Clarence Wedge, for many years president of the society, always brings encouragement and the treasures of new experience.

Take it all in all there is probably no Society on earth which equals this in the ability and devotion of its leaders and in the fidelity of the rank and file, scores of whom are engaged in the work of building up iron-clad fruits, which will resist the trying climate of the great Northwest.

The brilliant and thoughtful papers; the sharp discussion; the flashes of wit and now and then a short stirring speech, made the meeting a true one to the last.

C. S. HARRISON.

York, Neb.

ROYAL HORTICULTURAL SOCIETY'S COLONIAL FRUIT EXHIBITION.

The great colonial fruit exhibition, on Nov. 28 and 29, was alike astonishing in quantity, variety and quality, but if we take into account the extent and climatic range of these colonies it ceases to surprise. The great hall and one of the annexes was crowded with the display, apples being in great abundance from British Columbia and Nova Scotia, those from the first named country again taking the first place.

Not only were such old and well-known sorts as Blenheim Orange, Ribstone and Cox's Orange Pippins among the display, with some American sorts now naturalized and common in English gardens, as Northern Spy, Baldwin, King Tompkins and Newton Pippin, but there were numbers, totally unfamiliar in appearance and name to English growers, yet exceedingly fine, and which we shall soon know more of no doubt. Fallwater and Golden Russet, Red Cheek and others must come to be popular with us in the near future. Most of the best were staged in piles and singly in flat trays, but a great many were simply exhibited as they came to hand in boxes and barrels. Those first named, being of the very best grade, were wrapped singly in soft paper, and it was a marvel how well they had traveled the three thousand and odd miles by rail and steam packet with so little injury. The tropical fruits most in evidence were bananas and the varied kinds of citrus, from the small lime to the grape fruit and the shaddock.

A lecture was given in the afternoon on the proper way of bottling fruits, and how effectually to sterilize the syrup so as to insure their keeping.

THOMAS BUNYARD.

London.

MONTREAL GARDENERS' AND FLORISTS' CLUB.

Important was the annual meeting of the club last week. The report of the year 1907 was fully satisfactory. The attendance was large. Mr. Karins, of Henry A. Dreer's, Philadelphia, said that although he had attended many meetings in large cities in the United States, he had never had the pleasure of seeing such a numerous and interesting one.

Officers were elected as follows:

President, J. Pidduck; first vice president, J. C. Eddy; second vice president, J. Luck; secretary-treasurer, W. H. Horobin; assistant secretary, H. J. Eddy. Committee, P. West, Alf. Pinoteau, W. Hall, Geo. Robinson, G. Vreugde, Geo. Trussell.

The "game committee" was then called to report, and Messrs. J. Luck, G. Vreugde, J. Walsh, J. Eddy and W. H. Horobin were happy to learn

tate into complete harmony and restfulness to the senses. Road or drive making, lawns, gardens, rockeries, etc., were all touched upon instructively. In the discussion which followed Mr. Manning deplored the needless friction which too often occurred between the landscape architect and the gardener. The ultimate success of the architect's efforts rests with the gardener. He felt that after the engineering problems had been overcome and the final plans accepted they should be turned over to the gardener who should complete the work, or at least be consulted on all matters, especially the selection of shrubs and flowering plants.

A vote of thanks was extended to Mr. Manning by a large and appreciative audience after which the refreshment committee took charge.

At the next meeting, December 20. A. W. Parsons will speak on carnations.

MASSACHUSETTS STATE BOARD OF AGRICULTURE.

The public winter meeting of the State Board of Agriculture for lectures and discussions was held at Horticultural Hall, Boston, on December 3, 4 and 5.

In the absence of Mayor Fitzgerald the meeting dispensed with some of the scheduled formalities and gave its attention first to brief remarks by General Stephen M. Weld, president of the Massachusetts Horticultural Society and Governor Curtis Guild, Jr., president of the State Board of Agriculture.

William H. Spooner then took charge of the meeting as chairman and some very interesting papers were presented by well-known agricultural experts. About 200 farmers and fruit growers were in attendance.

At the afternoon session a lecture was delivered by W. W. Tracy of the bureau of plant industry of the U. S. department of agriculture on "The Breeding and Raising of Garden Seeds." The discussion which followed took a wide range. A good part of it was upon the advisability of endeavoring to secure legislation which will bring about the inspection of seeds by state or national officials, who will guarantee their vitality at the time they are sold by the seedsman.

On Thursday, the second day, much of the time was spent in visiting places of agricultural interest in the neighborhood of Boston.

CLUB AND SOCIETY NOTES.

The centenary of the Royal Society of Agriculture and Botany of Ghent, Belgium, will be celebrated with an interesting international exposition, April 26 to May 31, 1908. Programs can be obtained from the secretary of the society, Compure 140, Ghent.

The following are the new officers of the Florists' Club of Seattle, Wash.: President, J. W. Thompson; vice-president, C. W. Malmo; secretary, Frank Bathurst; treasurer, J. J. Bonnell.

The annual meeting of the Virginia Horticultural Society was held at Staunton, December 4 and 5.



J. PIDDUCK,

Head Gardener of Mt. Royal Park, President-elect of Montreal Gardeners' and Florists' Club.

that they had won the prizes for the aggregate points of the games of the past year. The donors of the prizes were Messrs. W. Ewing & Co., Dupuy & Fergusson, J. McKenna, W. Cooper and W. Rennie. A special committee was appointed to look in the matter of renting a new meeting hall.

G. VREUGDE.

NORTH SHORE HORTICULTURAL SOCIETY.

On December 6 this society had the pleasure of listening to a lecture on Landscape Architecture by J. Woodward Manning of Reading.

Mr. Manning covered the subject as fully as was possible in the time. Among the requirements necessary for success in this work the speaker laid great stress upon good taste in addition to broad education and knowledge of soil and plant requirements. He urged that natural existing conditions should be taken advantage of and improved upon, retaining everything of beauty, broadening or creating vistas and bringing the whole es-



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IN MEMORIAM.

P. J. Hauswirth.

The news of Philip Hauswirth's death came as quite a shock to his many friends in Philadelphia. The deceased had endeared himself beyond common to many of the leading men of the trade here, and the expressions of sorrow on receipt of the sad news from Chicago were universal and heartfelt. The Florists' Club sent by telegraph a handsome floral offering expressive of the combined sympathy of the trade, and there were a number of private expressions of the same kind in addition. We all feel that we have lost one of the finest of men, a warm-hearted, big souled brother, whose energy and enthusiasm for the general benefit was always unstinted and unselfish. We mourn him most sincerely and extend our sincerest sympathy to the family. The general impression here is that Mr. Hauswirth largely overtaxed his strength the past few years with the many burdens he so willingly undertook for the public benefit and literally worked himself to death in the intense effort to make good on all he obligated himself to. May the grass grow as green over his grave as his memory will ever remain dear to all who knew him.

G. C. WATSON.

Although none of his friends realized it, it is evident from facts which have come to light since the death of P. J. Hauswirth, that he has been for some time mentally more or less unbalanced. It would appear that he has been unable to bring himself to the routine work of making entries and reports and for some time has been piling everything up, waiting for the tomorrow of better mental condition which never came and this will no doubt explain to those members of the S. A. F. whose correspondence with

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the Secretary's office has of late been unsatisfactory, the real cause of the apparent neglect. We learn from Chicago advices that those who are engaged in straightening out Mr. Hauswirth's unfinished affairs are making good progress and that there is nothing in the situation to indicate anything but scrupulous care in the handling of the property and funds of the Society.

PERSONAL.

John Mangan, of Frank Millang's establishment, and Miss Margaret Walsh were married on November 27 at Long Island City, N. Y.

Paul Swoboda of the firm of J. C. Schmidt, Germany, is in New York this week. Mr. Swoboda's brother is of the firm of Hess & Swoboda of Omaha, Neb.

Visitors in Detroit: Mr. Peterson, of Cincinnati, with fine samples of Lorraine begonias, Pandanus and Whitmanii. Dr. Gurons, of Grand Rapids, Mich.; James Scholes, florist same place.

JAMESTOWN EXPOSITION AWARDS.

The chrysanthemum exhibition in Machinery Hall, Jamestown Exposition, November 25-30, brought out a magnificent array of blossoms from many sections of the country. Two loving cups, donated by Mrs. Harry St. George Tucker, wife of the president of the Exposition, were the chief prizes contested for; the silver cup, for the largest and best collection of blooms was won by Mann & Brown of Richmond, Va.; the silver and copper cup for largest collection, by Wm. Nilsson of Woodlawn, N. Y. J. H. Small & Son, Washington, D. C.; J. D. Hooper, Richmond, Va.; Mrs. D. G. Heidt, Guyton, Ga., were among the prize winners.

The Children's School Farm, a New York institution organized for the purpose of creating an interest in gardening amongst school children, was awarded a gold medal at the Jamestown Exposition. All the seed used was supplied by J. M. Thorburn & Co.

SINGLE AND POMPON CHRYSANTHEMUMS AT AGRICULTURAL DEPARTMENT, WASHINGTON.



CHRYSANTHEMUMS.

Single Chrysanthemums.

In most of the public exhibitions in the London parks, single chrysanthemums this year form a conspicuous feature. They are chiefly used as free-flowering bush plants for edging the groups, or else as plants placed at intervals in the banks of the specimen blooms to relieve the monotony of the arrangement. Ladysmith is one of the best and is largely used, its bright pinkish mauve flower rendering it very effective. Miss Mary Anderson and its sport Miss Anne Holden are also often met with—they are both old favorites here. Edith Pagram and Bronze Pagram are a pair frequently exhibited together, both being flowers of good form and size. Pink Beauty well deserves its name. Acme is a large rose-colored variety with yellow centre. Ideal, pure white; Golden Fleece, a yellow self, Rose Pink and Miss Parkinson, a pure pale yellow, are also neat little varieties in this highly decorative section. Mrs. E. Roberts is a charming flower of soft pale blush and Mrs. Walton a deep rosy colored flower with yellow centre.

At some of the trade displays we have specially noted a few of the newest and also a few of the older known, which are this season to be seen in the highest state of development.

One of the most floriferous is W. B. Reeve, large flowers forming a perfect mass of white; Miss G. Partridge, a neatly built bloom in color not unlike Ladysmith; Blushing Beauty, a wonderful bloomer, very large flowers, color soft shade of rosy blush, centre yellow; Progress, terra cotta, passing to golden yellow at the base, a very distinct variety. White Duchess is good, very full, the florets stiff and flat, fair-sized blooms, color pure white. Kitty Bourne, medium florets, deep golden yellow. Cannell's Yellow, very large blooms, long florets, pure golden yellow. Florence Adams, very long florets, pure white passing to bluish towards the tips. Freedom, well named, a fine pure white, thin florets rolled over, yellow centre. Mrs. J. Ferguson is a Mary Anderson sport, pale pink, white at the base, very delightful little flower. Mary Richardson, rich golden terra cotta, a warm and effective shade of color. Alice

Crate, a neat little flower with flat florets, medium width, deep, pinkish rose, very fine and distinct. Kate Covell, rosy amaranth, flat florets of medium length. Mrs. H. J. Hampton, pale apricot yellow, narrow flat floret, centre yellow. Bessie Payne, a fine decorative flower of the most striking kind, very free bloomer, flat florets, color pretty shade of pinkish mauve.

Older varieties that are perhaps already known, or which may have been described in former articles, include among the best of their season's flowering Mrs. C. H. Curtis, Pride of Merstham, Mrs. Earle, Kate Westlake, Green Eye, The Navy, Repulse, Florence Gilham, Good Hope, Gold Point, Venerable, The Pilot, Eric, Evelyn Neale.

For growing in beds and in the open border, for cutting, for all kinds of decorative purposes, these light, artistic singles are absolutely invaluable, and abundant evidence of that fact is seen everywhere this season.

American Chrysanthemums in England.

In spite of all the competition there are some varieties that die hard. They may be banished from the showboard and the exhibitor may discard them for others of more modern introduction, but there are always some old-fashioned growers who keep their long-cherished favorites through good and evil report. Every season this fact is made abundantly evident, and I have seen this year several old varieties in very good form that, according to all the canons of present-day requirements, should have been thrown on the rubbish heap many years ago.

In my early days of chrysanthemum growing we had

many good sorts that had long been in cultivation by the exhibitors, but when the flood of novelties came pouring in from all quarters of the globe twenty years ago the vast majority of the good old standard show flowers passed into oblivion and their place was taken by practically another race. This is true of all sections—the Anemone, the Incurved, and the Japanese in particular.

In these sections we had a fair proportion of American seedlings. Of these there are few to be seen nowadays at our shows, and except in a small number of private collections they are as good as extinct. During my visits of the past few days I have met some of my old friends of American origin that have been preserved, and it is interesting just to place their names on record. In the Japanese section William Tricker, introduced in 1891, is still retained. Simplicity, a white sent out the following year, is also grown. Mrs. E. G. Hill, a big early bloomer, dates from 1894. Modesto was one of the 1896 introductions and is frequent in some decorative collections. Good Gracious, although raised in Japan, came to us via America in 1893 and well deserves to be retained. Mutual Friend is an 1894 variety, and Col. W. B. Smith, whose color even now wants beating, goes back to the year 1892.



CHRYSANTHEMUMS AT PEACOCK CONSERVATORIES, PITTSBURG.

See page 76.

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I have not met with any of the American incurved varieties this season, but the anemones are still in evidence. Mrs. Judge Benedict and Delaware being grown in numerous examples.

Some Popular Decorative Chrysanthemums.

Apart from the single-flowered varieties which are now largely used as front-row plants in some of the large decorative groups exhibited in this country, there are many others used with considerable effect. When freely flowered, some of the medium-sized Japanese are of great service to lighten and vary those groups or banks of bloom in which the big Japanese blooms form the chief material.

L'île des Plaisirs is of a bronzy crimson; it throws a multitude of pretty little flowers when freely grown and is one of the best. Old Margot is another grand variety for the purpose, and is immensely popular. Soeur Melanie is a free bloomer and good for every purpose of decoration. Mlle Elise Dordoms, a pretty pink pompon—a perfect gem in form—is one used by everybody and in spite of its age has no equal. Mlle. Lacroix, a nice white Japanese, freely grown, is also an old favorite, and to a lesser extent its pale yellow sport, Mr. C. E. Shea. Source d'Or and Elsie, a cream colored reflexed, are also much in evidence and worthy of inclusion in any group where lightness of effect is required.

Among the pompons there are many varieties that are used with effect but to which we must refer on another occasion. C. HARMAN PAYNE.

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THE BROAD OUTLOOK OF THE AGRICULTURAL EXPERIMENT STATIONS.

A Paper by Dr. A. C. True, Director, U. S. Office of Experiment Stations.

(Continued from Page 770)

Original Researches.

The broad organization of our experiment stations has enabled them to perform a considerable variety of functions. In a general way the work of the stations in the United States may be grouped under the following heads: (1) Original research, (2) verification and demonstration experiments, (3) studies of natural agricultural conditions and resources, (4) inspection and control work, and (5) dissemination of information.

The original researches of our stations have been along almost all lines of the science of agriculture. They have included studies with reference to the improvement of methods of research, devising new apparatus and appliances, the relation of scientific principles to the science and practice of agriculture, the working out of new practical applications on the basis of well-known facts and principles, or the solution of special problems. Recently the opportunities of our stations to do original research have been greatly broadened by the passage of the Act of Congress of March 16, 1906, known as the Adams Act. This Act gives to each station in the several States \$5000 for the fiscal year 1906, and \$2000 additional for the 5 succeeding years, after which each station is to receive annually the sum of \$15,000, or \$720,000 for the 48 States and Territories, included in the continental United States. The money must be spent exclusively for original research in agriculture.

In reporting on the first year's operations of this Act the Office of Experiment Stations states that "it marks a distinct era in the life of the stations and agricultural investigation. It has served to draw attention sharply to a consideration of what constitutes scientific research in agriculture as distinguished from the mere acquisition of superficial knowledge. The result has been a general uplift in the conception of the duties and responsibilities of the stations and a stimulation of activity in all the more advanced lines of investigation. It is evident that a new regime has been entered upon in the conduct of the stations, which will make them contribute in a large way to the unfolding of the principles upon which agricultural development and practice rest."

Verification and Demonstration Experiments.

The verification and demonstration experiments have been partly carried on at the stations, more especially on the farms under their control, and partly by experiments in different localities, largely with the co-operation of farmers. Of this character have been very many of the experiments with fertilizers, thousands of which have been carried on in the States east of the Mississippi river. A very large number of practical tests of different field crops and horticultural plants have also been made on a commercial scale after the stations had

determined in a small way the adaptability of these varieties to the regions in which they are located. Many experiments in the feeding of animals and in dairying are of this character. Many means for the repression of insect pests and the diseases of plants and animals have been tried over and over again at the stations and among the farmers until they have become a part of regular farm practice. So popular have the demonstration features of station work become that many State legislatures have in recent years made relatively large appropriations for such work.

Studies of Conditions and Resources.

The station studies of natural agricultural conditions and resources have included such things as systematic meteorological observations, soil and crop surveys, studies of water supply, botanical surveys, determinations of the regions suitable to special crops, e. g., sugar beets, and investigations of marl and phosphate deposits. The stations in nearly 40 States and Territories are performing inspection service relating to fertilizers, feeding stuffs, foods, diseases of plants and animals, insect pests, fungicides and insecticides, dairy apparatus, etc. Taken together this constitutes a large item of station work and its practical results have been very important. All this work is provided for by State funds.

Dissemination of Information.

As agencies for the dissemination of information the American stations published in 1906, 418 circulars and bulletins and 45 annual reports, aggregating 17,501 pages, and amounting to 3,000,000 copies. In addition, a large number of more fugitive publications were issued and numerous articles prepared for the agricultural papers and other journals. The correspondence of the stations is enormous and covers the whole range of agricultural subjects. Their regular mailing lists contain over 758,000 addresses. Thousands of addresses are annually delivered by station officers at farmers' institutes and other agricultural meetings, numerous exhibits are made at county, State and National fairs and expositions, and special railroad trains have been used in a number of States to carry up-to-date information to farmers.

The most important and the broadest outlook of the experiment stations is along educational lines. Already the work of the stations has created an entirely new agricultural literature and the materials are constantly accumulated by which this can be extended and improved. The stations have also laid the foundations for a sound agricultural pedagogy and made possible the formulation of effective and satisfactory courses of instruction in agriculture for schools of all grades. They must ever supply the new materials by which these courses can be strengthened and improved.

Making Agriculture a Progressive Industry.

But their work has a far more fundamental and far reaching purpose—namely to make agriculture a progressive industry and the masses of agricultural workers progressive men. Great systems of education may be

elaborated and set in operation so as to bring within their control multitudes of men. But these systems may produce stagnation of thought and activity or crystallize the views of a certain epoch and make them the standards of national or even racial life for an indefinite period. Such has been the effect of the Chinese system of education and the Mohammedan study of the Koran, as seen in the great universities and schools of the Orient. And practically the same thing has been seen in that system of education of the farmer which has prevailed hitherto in every land and age. A system based on traditional lore handed down from father and son, and from age to age. Hence the outlook of agricultural industries and men has been universally almost wholly toward the past and, speaking broadly, the agricultural masses have been a constant drag on the progress of civilization.

But when there is put back of any system of education in the school or in practical life, the spirit of discovery, the quest for new truth, progress is not only possible, but it is sure to come. A hopeful spirit takes the place of discouragement or dull content. The outlook of the student or the worker is turned toward the future. Expansion of thought and of activity is bound to come with every new idea or principle revealed through experiment and research.

Modern science has introduced the ferment of truth-seeking in the natural world into many branches of human activity and in these latter days the agricultural experiment stations, as the agents of science for the special benefit of agriculture, have brought it in large measure into the rural communities. It has begun to work and in time it will leaven the whole lump.

An Example from Real Life.

Let me cite an example from real life. I know a successful New England farmer more than 80 years of age. He has passed through all the vicissitudes attending the development of agriculture in this country. He was reared in a small rural community where single families on farms of 40 or 50 acres did all the work with the aid of horses and oxen and simple hand tools. They not only raised the crops and animals necessary to give them food and clothing, but also spun some and wove the flax and wool and sewed the resulting fabrics into clothes, tanned the hides of their cattle into leather and made it into shoes, wrought as carpenters and blacksmiths to make tools and vehicles, and in a word were almost entirely self-supporting. He has witnessed the gradual introduction of factory-made articles which drove numerous industries off the farm and the development and use of farm machinery until hand tools are used in only a small part of the farm operations. He has seen these new conditions and the opening up of vast areas of fertile land further West break up the old rural communities of New England and greatly increase the area of land necessary for a family's support. He has heard all the foolish talk about abandoned farms, as if hard-headed practical men could ever again be expected to try

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The right time to buy Roses is when they are fresh and well ripened. Roses potted up in the fall or winter become better established and force better, and are far more satisfactory in every way, and you can retard and force at your leisure. We recommend American-grown Ramblers. Don't attempt to force imported Ramblers; the general experience is that they are a failure.

We offer exceptionally strong two-year-old dormant, low-budded stock (on Manetti), in the following varieties, true to name:

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Captain Christy. Delicate flesh-color.

Duke of Edinburgh. Bright vermillion; fine.

Fisher Holmes. Dark rich scarlet.

Frau Karl Druschki. The finest white in existence.

General Jacqueminot. Rich velvety crimson.

General Washington. Beautiful red, shaded carmine.

John Hopper. Beautiful rose pink.

Margaret Dickson. White, pale flesh center.

Magna Charta. Clear rosy pink.

Mme. Gabriel Luizet. Light satiny pink.

Mme Plantier. White.

Mrs. John Laing. Soft pink; most desirable variety.

Paul Neyron. Beautiful dark pink.

Prince Camille de Rohan. Velvety crimson.

Ulrich Brunner. Cherry red.

Prices on Hardy Hybrid Perpetual Roses, 75c for bundle 5. \$12.00 per 100; \$110.00 per 1000. 25 at 100 rate, 250 at 1000 rate.

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THE ONLY STOCK FOR FORCING

Large plants, 2 to 3 feet, \$1.25 for 10; \$12.00 per 100

Large, heavy plants, two years old, 3 to 5 feet, \$1.75 for 10;

\$15.00 per 100.

Extra heavy plants, 4 to 6 feet, \$2.00 for 10; \$18.00 per 100.

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Selected stock — de-eyed for grafting indoor roses, \$1.50 per 100, \$12.00 per 1000. For Immediate Delivery.

THE NEW BABY RAMBLER ROSE

Catherine Zeimet. A very important novelty. A White Baby Rambler Rose, larger and better flowers than the type. White with yellowish center. An important fact is that it has the true rose perfume in a high degree. One of the best polyantha types to date. Fine forcer. 50c each; \$5 per dozen; \$40 per 100. Extra heavy, 75c each; \$7.50 per dozen; \$60.00 per 100.

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Gracilis. Pot-grown for forcing, \$2. per dozen; \$15 per 100.

Lemoinei. Pot-grown for forcing, \$2.50 per dozen; \$18 per 100.

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We have just received a large quantity of LATE DUG, well-ripened bulbs of superior quality, from Japan, in first class condition. They are being put into Cold Storage for delivery during 1908 as ordered. We have

LILIUM GIGANTEUM

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LILIUM LONGIFLORUM

LILIUM MAGNIFICUM

and a few Rubrum, Hansoni, etc. Among the Speciosums we especially recommend the Magnificum, which is one of the finest lilies today.

YOU SHOULD GROW LILIES ALL THE YEAR AROUND

The Longiflorum varieties flower in from 13 to 18 weeks after they are potted, and the Auratums and Speciosums in 18 to 24 weeks. 55° to 60° is sufficient for the Speciosums, while the Longiflorum varieties will do better by a 5° lower temperature, especially, from November until February. Careful watering is necessary to avoid getting the soil too wet. Under these conditions Speciosums potted end of July and Longiflorums end of August will bring you fine flowers for Christmas. All large forcers know these to be far superior to Harrisii.

We can also deliver from Chicago Cold Storage Warehouse, Longiflorum 9/10", Multiflorum 9/10" and Giganteum 7/9 and 9/10" at reasonable prices

Write us for prices.

RALPH M. WARD & COMPANY, 12 West Broadway, NEW YORK CITY

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There is no more attractive and salable plant when grown, trained in pots for **Easter** than the **CRIMSON RAMBLER ROSE**, and considering the simple treatment they require, **few plants make better returns.**

Most important of all, is to get **strong field grown plants**, that have been dug carefully, and the roots kept **moist.** We have **several thousand such plants**, grown in our Nurseries that have been put up in bundles of 25 each and graded as follows:

Plants with 5 to 8 and more canes, 6 feet long suitable for an 8 inch pot \$25 per 100. The 2 should sell in flower from \$3 to \$5 each.
Plants with 3 to 5 canes, 4 to 6 feet long, suitable for a 7 inch pot \$15 per 100. These should sell in flower from \$2.50 to \$3 each.

Plants with 2 to 3 canes, 3 to 5 feet long, suitable for 6 inch pots \$12 per 100. These should sell in flower from \$1.50 to \$2 each.
We also have some smaller plants that would make nice \$1 plants in 5½ to 6 inch pots, 2 to 4 canes 2 to 3 feet long at \$8.50 per 100.

The latter size is useful for outdoor planting having very strong roots.

Each plant has been tied up separately in the field making them very convenient for potting.

PALISADES NURSERIES,

Sparkill, N. Y.

HARDY PERENNIALS OUR SPECIALTY. (Formerly conducted by Clucas & Boddington Co.)

to make a living from 40 acres of poor land in New England, or to grow crops on areas which nature intended for forests or recreation places for tired city people. He was long past middle life when he had an opportunity to welcome the experiment station as a friend and helper. He has learned to sell milk by the Babcock test, to feed silage to his cows, to spray potatoes and fruit, to buy high-grade phosphate at higher cost because it is so much more available to his crops. He has even undertaken to be an experimenter himself. Having heard that one of his neighbors had accidentally poured brine on land intended for potatoes and claimed that the succeeding crop was free from scab, he tried this year the effect of putting salt in the hills when he planted his potatoes. And what is the most important thing about his attitude is shown by his remark that he realized that this single year's experience would not prove anything, but that he should have to repeat the experiment several years and study the matter closely to determine what was the real effect of the salt on the scab. He has made a good success at farming and claims that his arable land is twice as productive as it was forty years ago, but he greatly regrets that in all probability he will not have much more time in life to continue and develop the experimental side of his farming which he believes promises much. If such can be the attitude and the hopeful outlook of an aged man who has come under the influence of the experiment station what may we expect if we can put the station back of every farm and school in New England, and other parts of this country and rear succeeding generations of rural people with a love for discovery of new truths pertaining to agriculture and a belief that science can advance agricultural practice and make agriculture a perpetually progressive industry.

Awakening the Rural People.

This is obviously a matter of tremendous importance. For if once the masses of rural people have the spirit of progress and discovery in matters relating to their industries they will doubtless carry it into all their social, moral and religious life. As things are now a large part of the progressive energy which has wrought the fabric of our commercial manufactures, social customs, laws, govern-

ment and religious life has come from the country.

If all this has come out of communities largely dormant or retroactive what may be expected when the country districts are permeated with the vital spirit of modern science—the love of truth and the desire for its enlargement.

Many plans for rural improvement have been made by philanthropists and statesmen but they have largely been failures because they were imposed on the unwilling minds and hearts of unprogressive people. But if the rural people themselves awake and make their plans of improvement we may surely expect wonderful things. As an arouser of desire for improvement and a stimulator to intelligent effort to make the country a better place to live in and work in the agricultural experiment stations have their chief importance and their high-virtue that they especially commend est mission. And it is for this themselves to all the friends of rural progress for if these fountains of new knowledge are kept strong and pure their waters will spring up forever to replenish the life of countless generations of rural people.

A NEW EXPERIMENT STATION.

Your readers will undoubtedly be interested in the fact that, through the combined efforts of the truck growers in the vicinity of Norfolk, Virginia and the State Board of Agriculture, there has been established, just outside the city of Norfolk, in Princess Anne County, an experiment station devoted exclusively to the interests of truck growing. This station has been placed under the immediate charge of Prof. T. C. Johnson formerly of Cornell and of the West Virginia University. The station is located upon characteristic trucking soil of the region and embraces some 58 acres which will be improved and devoted to the cultivation of various truck crops, and the solution of the many problems involved in the fertilization, harvesting, marketing and improve-

ment of such crops. Seven thousand five hundred dollars (\$7,500) have been set aside by the Southern Produce Company for the purpose of equipping this tract with suitable buildings for conducting the work. The State Board of Agriculture devote \$5,000 of its funds to the maintenance of the work, and the Department of Agriculture at Washington, and the State Experiment Station at Blacksburg, Virginia, both co-operate with the above named organizations in carrying on the work. While no experimental work has yet been inaugurated, the ground is being improved and prepared for the work of actual experimentation. It is hoped that as the spring opens areas will be available for extensive fertilizer and variety tests, as well as the beginning of some systematic breeding work with standard vegetables. This is a notable undertaking in this respect that it is the first experiment station to be organized in the United States exclusively devoted to the interests of truck growing of any locality. The organization is to be congratulated on having secured the services of a careful, conservative and well trained man in the person of Professor Johnson, and all possible success is hoped for the undertaking. It is a new field of work and will of course present innumerable problems, a few only of which can be taken up and solved at once. It will be necessary to devote years of careful study and research to this industry which has sprung up and grown to such gigantic proportions in comparatively few years; that is, the many problems peculiar to itself which have never been touched upon by the regular experiment station workers of the country, and it is fortunate that this station has been established in a region so pre-eminently devoted to trucking as is the territory in the neighborhood of Norfolk and Portsmouth, Virginia.

Very truly yours,

D. C. CORBETT,
Horticulturist.

U. S. Department Agriculture,
Bureau of Plant Industry.

ROSES

Selected Stock for Forcing CRIMSON RAMBLER and DOROTHY PERKINS

3 to 4 ft. \$1.50 per 10, \$12.00 per 100; 4 to 5 ft. \$2.00 per 10, \$15.00 per 100

HYBRIDS — All Leading Varieties, \$1.50 per 10, \$12.00 per 100

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The Finest Stock of Hardy and Forcing Varieties in the World

Azaleas
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High-Class
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THE
FAMOUS
RAMBLER
ROSE

2 1/4 in. Pots, \$10.00 per 100

3 1/2 in. Pots, 12.50 per 100

Ready to Pot On or Line Out in
the Field

Thomas Roland
NAHANT, MASS.

Viburnum Plicatum

Berberis Thunbergii
Hydrangea Pan. Grand,
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STOCK.
Send for
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and Ready Reference Guide. You
will find some good offers there also.

100,000 DAHLIAS

Premium Stock, guaranteed true to name.

500,000 large Flowering Gladioli,
hundreds of colors and variations mixed.
Wholesale prices on application. Order now
for spring delivery. Catalogue free.

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A long list of varieties true to
name. Write for prices.

A. B. DAVIS & SON, INC.
PURCELLVILLE, VA.

DAHLIAS.

Now is the time to
place your order for
bulbs which will insure
you getting named va-
rieties in any quantity; prompt delivery.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
ATCO, N.J.

DAHLIAS

THE financial flurry is over; it is now time for dealers to place their orders for Dahlias. We have a very large stock of roots. If you are short of any varieties in your catalogue forward us your list for a quotation. Our list contains some of our new and standard varieties.

Charm	Maid of Honor	Winsome	Professor Mansfield
Comrade	Miss A. F. Perkins	Countess of Lonsdale	Progress
H. F. Robertson	Northern Star	Earl of Pembroke	Fern Leafed Beauty
J. B. Briant	Richard Dean	Keynes White	Lemon Beauty
Lord Brassy	Shamrock	Strahlein Krone	Storm King
Mrs. James Mace	The King	Blue Oban	White Dandy
Osprey	Wm. Tressedar	Catherine Duer	Yellow Livoni
Oliver Twist	Cuban Giant	Eureka	A. D. Livoni
Premier	Gigantea	Mrs. Winters	Arabella
Princess	Mrs. Roosevelt	Mrs. Chas. Turner	Camellia Alba
Titania	Coronation	Miss Nellie Stewart	Flora Nova
Vesuvius	Floradora	Miss Minnie McCullough	Jamaica
Violetta	Flamingo	Sylvia	James Vick
Zephyr	Gabriel	Admiral Dewey	John Thorpe
Alpha	General Buller	Black Beauty	Miss Dodd
Amos Perry	J. W. Wilkinson	Clifford W. Bruton	Paul's Scarlet
Dorothy Vernon	Jealousy	Pendent	Queen Victoria
F. A. Wellesley	J. H. Jackson	Yellow Duke	Gorgeous Century
F. H. Chapman	Kriemhilde	Alba Superba	Crimson
Florence M. Stredwick	Mrs. H. J. Jones	Grand Duke Alexis	Iris
Harbor Light	Mrs. Edw. Mawley	Henry Patrick	Leone
H. W. Sillen	Miss Grace Cook	Lyndhurst	Maroon
Innovation	Purity	Nymphaea	Pink
Lord Roberts	Roseae Superba	Wm. Agnew	Red Giant
Lyric	Siegfried	Gold Medal	20th
Mabel Tullock	Spotless Queen	Goldsmith	St. George
Magnificent	Uncle Tom	Hercules	Striking
Mrs. Clinton	Victor Von Scheffel	Eloise	Twilight
	Volker	Olympia	

DAVID HERBERT & SON, ATCO, N. J.

**Wholesale Catalogue for 1908
Ready for Distribution.**

A MODEL CARNATION ESTABLISHMENT.

The F. R. Pierson Company's carnation houses at Scarborough, N. Y., are undoubtedly the finest structures in the world devoted to carnation culture. Each of their four lofty greenhouses covers fully half an acre of ground, and altogether they shelter nearly 80,000 plants, of which 40,000 are the popular Winsor. It was a bold undertaking to chance half of the entire capacity of so large an establishment on a single variety, but Mr. Pierson has the figures from last year's returns to give him courage and so far as known no rival for this well-liked soft and pure pink flower is yet in sight.

Next in the appreciation of Mr. Pierson comes the white Enchantress. Like Winsor it gives evidence of superb vigor and productiveness. The blooms average three and a half inches in diameter and have all other qualifications to match. White Perfection is there also, but a good many split flowers are in evidence which is not the case with the two varieties previously named.

Scarlets have been narrowed down to three varieties—Beacon, Victory and Red Chief, the two first-named being preferred. Beacon is a little brighter than either of the other two, but Victory is keeping well up on productiveness and especially on that most desirable of all qualities, long endurance after cutting. Between Variegated Lawson and Mrs. Patten which are the only white-striped varieties grown, the latter gives the best satisfaction. Helen Gould and Rose

Pink Enchantress are inclined to irregularity of color and much care must be exercised in the matter of cutting the flowers on account of the quickness with which the color changes if picking is not done at the proper moment. The light pink Lawson or Melody suffers somewhat from its short stem early in the season but it is a most excellent keeper and shipper.

The greater part of Mr. Pierson's carnations are grown on benches, but in one house there are several solid beds of Winsor which make an equally good appearance. It is doubtful if 80,000 carnations are to be found anywhere so perfect in health and so uniformly excellent as Mr. Pierson has to show, and it would certainly pay any carnation grower well to make the trip to see these splendid modern houses and their contents. No manure or stimulant in any form is given the plants, neither are they syringed. Fumigation once a week, whether a green fly is to be found or not, is about the only operation outside of the usual care of watering, disbudding and picking. At the present time the cut is about 2500 a day.

Carnation growers have no more discouraging and pestilent trouble to contend with than splitting of the calyx. The season is now approaching when this bad habit is liable to break out and consequently it behooves all those who want to be fore-handed to read about the M. & D. artificial calyx in the advertising columns of this paper.

INCORPORATED.

Holton & Hunkel Greenhouse Co., Milwaukee, Wis., by F. H. Holton, H. V. Hunkel and A. E. Brown.

The Howell Greenhouse Co., Howell, Mich.; Myra A. McFee, N. R. Chamberlain and N. L. Chamberlain; capital, \$10,000.

CARNATIONS

White Enchantress R. Co., this stock originated with and grown by me is the very best, \$6.00 per 100; 50.00 per 1000. **Enchantress**, light pink, \$2.50 per 100; \$20.00 per 1000. **Lawson**, \$2.00 per 100; \$15.00 per 1000. **Lord**, light pink, \$2.00 per 100; \$15.00 per 1000. **Queen**, white, \$2.00 per 100; \$15.00 per 1000. **The Belle**, \$2.50 per 100; \$20.00 per 1000.

FRANK H. KIMBERLY,

631 Townsend Avenue, New Haven, Conn.

CARNATIONS ROOTED CUTTINGS

Winona, color, true clear pink, comes nearest to Fiancee but a different type flower. Growth on order of Scott but vastly improved in every respect. Early flowers in quantity and on long stems. Does not burst its calyx. Fine, shapely, active growth. In color and productiveness it is without an equal. Orders booked now and filled in strict rotation. \$12 per 100, \$100 per 1000.

White Perfection, pure white. We have a large stock. \$3 per 100, \$25 per 1000.

F. DORNER & SONS CO.
LA FAYETTE, IND.

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Both standard varieties and novelties. Stock guaranteed to be first-class. Address,

S. S. SKIDELSKY

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CARNATION CUTTINGS DEPEND

on receiving only **STRONG** and **HEALTHY** cuttings when you order from US.
WE HAVE ONLY THE NICEST AND BEST VARIETIES.

Write for further information to



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GROWER
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Victory **Imperial**
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White Perfection
Welcome **Lieut. Perry**
Rose Pink Enchantress, etc.

Novelty Chrysanthemums

OUR COLLECTION OF THESE FOR 1908
 IS THE LARGEST IN THE COUNTRY

We have many on hand *Now* in small stocks. *Buy these*
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Only the Selects from America, England,
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WELLS-POCKETT SET.

Let us book your orders for our Four Bread Winners.
 Preliminary list now. Catalogue soon. Write at once.

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ANDREW CARNEGIE (Snow) (Scarlet Harlowarden)

The only scarlet having the rich velvety color, calyx that does not burst, stem long
 and of the best and as a producer cannot be excelled.

Rooted cuttings, strong and healthy. \$12 per 100. \$100 per 1000.

CHICAGO CARNATION CO., A. T. PYFER, Mgr. JOLIET, ILL.

1908—TOREADOR—1908

Our new seedling Carnation. In color, a
 very much improved Prosperity, with the addition
 of strong stiff stems. The finest novelty
 for 1908. Awarded first-class certificate
 Toronto meeting of the American Carnation
 Society. Write us for further information.
The H. Weber & Sons Co., Lakeland Md.



Send for
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WHICH IS WISER
 to raise split Pinks which must be mended
 or those which need no mending?

Perfect flowers guaranteed by
 the M. & D. Artificial Calyx.

\$1.75 per 100; \$15.00
 per 1000. 250 at 1000
 rates

Maxfield & Dimond
 Box 304-D WARREN, R. I.



Pat.
 Sept. 18-06

CHRYSANTHEMUM STOCK PLANTS

10c. each, \$1.00 per doz., \$6.00 per 100

WHITE—Early: George S. Kalb, Polly Rose
 Willowbrook Early Snow, October Frost.
 Mid-Season: Miss Minnie Wamaker, Ivory,
 Mrs. Robinson, Niveus, Queen, Miss Alice
 Byron, Eureka, Beatrice May, Pierza. Late:
 Mrs. McArthur, Timothy Eaton, W. H.
 Chadwick Adelia, Mrs. Swinburne.
PINK—Early: Glory of the Pacific, Rosier.
 Mid-Season: Adela, J. K. Shaw, Pink Ivory,
 William H. Duckham, Dr. Enguehard Morton
 F. Plant, The Harriott, Marie Liger,
 Lavender Queen. Late: Maud Dean, Mrs.
 James Marshall, Mayor Weaver, The Harriott.
YELLOW—Early: Monrovia. Mid-Season:
 Miss Georgiana Pitcher Col. D Appleton,
 Mrs. George Beech. Late: Major Bonaffon,
 H. W. Rieman, Yellow Eaton, Old Gold,
 Golden Wedding
RED—Cullingfordii, Matchless, Pierstham
 Red
BRONZE—Miss Kate Broomhead, Mrs. W. H.
 William Duckham.
POMPONS—Baby (Yellow), Lulu (White).
NOVELTIES—20c. each, \$2.00 per doz., \$15.00
 per 100. Mrs. Clay Frick, mid-season, White;
 Golden Dome, late, Yellow.

A. N. PIERSON, Cromwell, Conn.

CHRYSANTHEMUM STOCK PLANTS FROM BENCH

Timothy Eaton, Rosiere, C. Touset, Maud Dean
 Robt Hall day, Alice Byron, White and Yellow
 Bonaffon, Mary Mann, Yellow Jones. \$1.00 per
 dozen; \$6.00 per 100.
 Mrs. George S. Kalb, Ivory, Estelle, Glory of
 the Pacific and Cremo, \$1.00 per dozen; \$5.00 per
 100. Cash with Order.
 William Swayne, Box 226 Kennet Square, Pa.

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Chrysanthemum Novelties a Specialty

JOHN E. HAINES Bethlehem, Pa.

is the place to order rooted-cuttings of the
 following varieties for 1908.

John E. Haines, red	} Per 100 Per 1000
Imperial variegated	
Pink Imperial, Pink	
Enchantress, Light Pink	

Place your orders early for Dec. delivery.

PRICES QUOTED IN THESE COLUMNS ARE FOR DEALERS ONLY When Writing to Advertisers
 Please Mention Horticulture

Seed Trade

The season is now at hand when the growers of peas and beans will begin booking orders for future delivery for the season of 1908-9, and the prices at which the various varieties can be profitably produced is causing the careful responsible grower much thought and anxiety. He has no idea what his competitors' prices are going to be, yet he knows he cannot continue doing business at old prices. For one reason his products are going to cost him more, and though he knows that certain camp followers are going to solicit business at old-time prices, trusting to their lower rates to atone for the notoriously low quality of their goods, yet he is compelled to raise his prices or allow his standard of quality to drop to the level of the jackals of the trade. This by instinct and long practice he cannot do, and must therefore trust that a sufficient number of his customers, knowing they will get the best goods attainable, will appreciate his circumstances, and that his advance in prices is justifiable to enable him to continue in business.

It has been pointed out at various times in these columns that the standard by which prices have in the past been regulated no longer represents actual conditions. The five-fold yield which was many years ago adopted as the standard for most varieties of garden peas, does not meet present-day circumstances. The hardy varieties in use at the time this standard was generally adopted, have either become obsolete or have deteriorated to such an extent in vigor and productiveness that now the five-fold yield is the rare exception, instead of the rule. A five-fold yield of the general line of garden peas has been realized but once in eight years, the average for the other seven being from three and one-half to four fold. Now in view of the continued deterioration in both seed and soil, no material improvement in conditions can be looked for, and while five-fold yields will occur at infrequent intervals, when Mother Nature is in a particularly beneficent mood, slowly diminishing yields are much more likely to be the rule.

As vigor and character decline in a variety the tendency to "sport" becomes more marked, and the care and expense of keeping it true to type increases.

Eternal vigilance is not only the price of liberty, but of quality, and it is but stating a splendid truth to say that quality is maintained only by intelligent, painstaking care and additional expense. Now, the quality of seeds and their products vary almost as widely as any given line in manufactures, and pure woollens cannot be bought at the price of shoddy nor can high-grade seeds be produced or bought at the prices of degenerate products.

Twenty-five or thirty years ago when yields of peas and beans averaged materially higher than now, prices were from twenty-five to fifty cents per bushel higher, and yet the prices paid the farmers were lower and the general cost of doing business much less than at present. While improved methods of cultivation and harvesting have greatly cheapened the cost of pro-

ducing most farm crops, peas and beans are produced by practically the same methods as followed by our fathers fifty years ago. Cost of production has not been lessened in any essential respect, while the general cost of doing business has greatly increased, and there are no prospects of any lowering of cost in the immediate future. There has never been any justification for the lowering of growing prices of peas and beans, but the seed trade has always been afflicted with certain wild-cat speculators and plungers who in their eagerness to get business have cut prices from time to time always seeking to be below their reputable competitors. Of course, this cutting of prices was followed at once by a lowering of quality, as few dealers and fewer canners were willing to recognize any difference in quality of seed and virtually compelled the reputable grower to meet prices of all comers. Even his stocks suffered, as he found it impossible to put the time and expense on them necessary to keep up the standard of quality. From this demoralized condition the growers are now recovering, and once again rounding their seed stocks into proper condition. Give them the needed encouragement and, in a few years more, stocks will again fairly represent their names and types.

Catalogue prices have finally been settled, and the first catalogues will soon be out, and the prediction is made that onion seed prices will be disappointingly low in many of them and it is not improbable that the makers will be among the most disappointed in final results.

While high tide in the price of peas has no doubt been reached, it is not so with corn, and not before February will this be the case, unless those who are depending on this year's crops learn the actual facts sooner, and abandon vain hopes that it may finally round into shape for seed. When this fact is finally appreciated there will be some interesting "doin's."

The damage to Lima beans caused by the rains in October proves very serious. Beans caught in the rain have suffered so severely that the shrinkage will be from forty to fifty per cent. and the cost of hand-picking from 60 to 75c. per bushel, thus making every bushel of beans cost from \$6.00 to \$6.50. This will leave the growers with a balance on the wrong side of the ledger.

There have been rumors for some time of discriminations in favor of canners against the seedsmen by certain growers of peas and beans, which seem to be well founded. Of course there can be but one opinion of such action, that it is essentially dishonest, and is done to curry favor with the canners because they are usually buyers of much larger quantities of a few varieties than the average seedsmen. If seedsmen are satisfied, and do not complain of such treatment no one else need concern himself with the matter. But are the seedsmen aware of this discrimination? It scarcely seems reasonable to suppose they would not enter a protest if they knew it.



In a season like this, when Alaskas, Admirals, Horsford's Market Garden, Advancers and Surprise are eagerly bought by canners at \$5.00 to \$6.00 per bushel to raise the canner's percentage on these varieties from 10 to 25 per cent. above the seedsmen's, looks to disinterested eyes like a very unjust proceeding and is certainly depriving the seedsmen of a very handsome profit on whatever quantities he loses by this action of the growers.

The severe cold of last week, when the mercury touched zero over the greater portion of the Atlantic, Middle and Central Western States, must have ended whatever hopes were entertained of saving soft and immature sugar corn, which really constitutes 75 per cent. of this year's crop of the late varieties, though even now this fact is not generally appreciated, and it will doubtless be some weeks yet before it percolates through the craniums of many who are depending on this year's crops.

Information comes to hand that the principal growers of peas and beans intend to advance their contracting prices for the 1908 crop of peas, and particularly the canner's varieties. This is a wise move and in view of the known scarcity of seed stocks, particularly of the wrinkled sorts, there should be no serious difficulty in getting their prices. Compared with the farmers who grow peas for the canning factory, those who grow seed realize but little over half as much per acre and it requires some little more labor and expense to produce a crop of seed; owing to the establishing of canning factories in the seed growing belts of Michigan and Wisconsin this fact is being learned by the farmers, and as a consequence it is becoming increasingly difficult for the seed grower to secure his acreage.

GLADIOLI

I can satisfactorily supply your wants for Gladioli for forcing or outdoor planting. Mixtures, color sections or named varieties of exceptional beauty.

Write for Prices

ARTHUR COWEE

Gladiolus Specialist

Meadowvale Farm, BERLIN, N. Y.

and unless a more equitable adjustment of prices is reached, the seed grower may have to rent his land and plant his own crops. This of course is really impracticable, and the only alternative is to pay the farmer more, which in time will compel the grower to ask more for his products. Higher prices seem to be inevitable.

Cincinnati has been selected as the place for the next Cannery convention, and Hotel Sinton will be the headquarters. The machinery exhibit will be in Music Hall. Further information will be given from time to time. The convention will be at the usual date, February 3-8.

CATALOGUES RECEIVED.

A. T. Boddington, New York. Seeds and Bulbs for 1908. This catalogue is well filled with the standard offers in flower and vegetable seeds, hardy and tender plants, etc., profusely illustrated, which we now look for in the catalogue of any representative house. The cover is, however, so far out of the usual in merit that we want to call attention to it specifically. It is one more of the productions of H. A. Bunyard to which we have had occasion to refer heretofore. It is in pink, white, green and gold, the central feature being a bloom of Cosmos Lady Lenox conventionally treated. Mr. Boddington is sending out, with the catalogue, a 16-page order sheet, comprising a complete list of the flower and vegetable seeds. We do not remember ever having seen anything in this line so comprehensive.

S. S. Pennock-Meehan Co., Phila., Pa.—Folder of Christmas Specialties and Prices. Plants and cut "green goods" of all descriptions.

Cover your Cold Frames with HOT BED MATS

Made of burlaps, thickly quilted with jute making a serviceable warm mat. 76 x 76 inches, will cover two frames.

\$1.25 each. \$14.00 per doz.

WM. ELLIOTT & SONS

201 Fulton St.,

NEW YORK.



100 seeds \$1; 1000 seeds \$9.

H. E. FISKE SEED CO.

12 and 13 Fanueil Hall Square. BOSTON, MASS.

Cyclamen

Superb English Strain
Second to none in size
of flowers
Giant Crimson.
" Pink
" White.
" White with
Claret base.
" Mauve.
" Salmon Queen.
" New Fringed.

Burpee's Seeds PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

ESTABLISHED 1802

Thorburn's Bulbs

ROMAN HYACINTHS at reduced price to close out.

PER 1000 SEEDS

Asparagus plumosus nanus seeds \$2.25

Asparagus plumosus robustus seeds 2.50

BERMUDA EASTER LILIES

Bulbs of all kinds, native and foreign.

Send for our Trade Bulb List

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"QUALITY IS REMEMBERED LONG
AFTER PRICE IS FORGOTTEN."

WHAT QUALITY MEANS.

Quality means the best and finest types procurable in their respective classes. We go to specialists for our flower seeds. Our customers, the Florist, the private gardener demand the highest grade. We have no cheap catalogue trade. "Quality" may mean a little higher in price. "Quality" in fact means "Quality" and we know that when you buy from us you get it—and our customers know it too. Catalogue now in press, 4 pages. Write for one its FREE. We sell bulbs too.

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in the United States

BAMBOO CANES TOUGH AND STRONG

6 ft. long—\$1 per 100; \$6 per 1000; \$11 per 2000

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO., -

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RELIABLE SEEDS SOW NOW

	Tr. Pkt.	6 Tr. Pkts.
Alyssum Carpet Queen, real dwarf for pots only, no equal.....	\$0.25	\$1.25
Begonia Gracilis Luminosa, new	0.50	2.50
Erfordia, beautiful.....	0.50	2.50
Za gen's Bedding Queen	0.50	2.50
Lobelia, new Trailing Hamburgia	0.30	1.50
Petunia, Zangen's Extra Double Fringed Giants.....	1.00	5.00
Zangen's Superb Single Fringed Giants.....	0.75	4.00
Zangen's Ruffled Giants, the best.....	1.00	5.00
Phlox, best for pots, Fireball, Roseball, Snowball, each color.....	0.25	1.25
Salvia Fireball, new, a fine potter	0.50	2.50
Stocks, German 10 weeks: Blood-red, Lavender, Pink, Purple, White, each color.....	0.50	2.50
Verbena flammoth: Pink, Purple, Scarlet, Striped, White, each color.....	0.25	1.25

My New Fall List Ready for the Asking

O. V. ZANCEN

Seedsman. HOBOK N, N. J.

Best Quality Fall Bulbs

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent upon request. Catalogues now ready.

VICK'S SUPERB PANSY SEED

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 75c. 1-4 oz. \$1.50 Ounce \$5.00

JAMES VICK'S SONS, Rochester, N. Y.

CYCLAMEN

Farquhar's Giant Strain

Unsurpassed for size of flowers.

Giant Crimson Giant Pink
Giant White Finest Mixed
Giant Excelsior, White with
Claret Base

100 seeds, \$1.25; 1000 seeds, \$10.00.

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BULBS

SPIREA JAPONICA, COMPACTA MULTIFLORA, FL RIBUNDA, GLADSTONE

Get our special prices on surplus Bulb stock.

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47-54 NO. MARKET ST., BOSTON, MASS.

JUST ARRIVED LARGE SHIPMENT OF High-Grade SCOTCH SOOT.

We have the stott Double Nozzle
THOMAS J. GREY CO.

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CHRISTMAS PLANT NOTES.

For several years it has been observed that at Christmas there was a decided increase in the numbers of those preferring plants rather than flowers both when the ultimate object was the making of a gift and the brightening of their own dwellings by the persons themselves.

This increase in preference for plants, though without doubt of great value to the plant trade, has not made any apparent difference in the sale of flowers. The sale and use of the latter has increased as much in proportion as that of plants.

Specimen foliage plants and single flowering plants are still in greater demand than made-up combinations of one or both, and there is without any question cause for thankfulness that such is still the case both for the sake of grower and buyer. Made-up combinations when tastefully done and not overdone are pretty and effective, but in very rare cases do buyers have the same real enjoyment out of them as they would have had from one or more well-grown plants of specimen form. And again it is doubtful if there is as much profit in made-up affairs as there is in plants that sell on their own individual merits.

Palms, ferns, *Ficus elastica* and *Ficus pandurata*, *dracaenas*, *pandanuses*, *crotons* all in variety will be in demand this year. Palms, especially nice thrifty medium-sized *kentias*, are never dead stock on hand so that there is no risk of loss with them no matter how taste runs. *Phoenix Roebelinii* is also a most likely subject for attracting the attention of buyers. Rubber plants can always be depended on to give an account of themselves. *Ficus pandurata* will find an opportunity to test its popularity. There is no doubt of its being serviceable, but its ability to increase its popularity for Christmas decoration has yet to be decided.

Araucarias are charmingly effective Christmas plants and as a rule there is less trouble disposing of them at satisfactory prices than there is with most other foliage plants. *Pandanus Veitchii* is a beautiful plant when well grown. This plant is a whole decoration for a table in itself when well finished with finely colored foliage and when taste runs in the direction of made-up arrangements there is perhaps no other plant that can hurriedly be made to do so much effective service in the work of filling. *Pandanus Veitchii* made up along with small colored *dracaenas* and *crotons* with perhaps a few dwarfier foliage plants for finishing produce excellent effects. Ferns of the many *nephrolepis* varieties are of great value for Christmas decoration. The old Boston will never disappear from view on these or other like occasions for plant selection; its unsurpassed graceful habit ensures for its popularity for all time. The newer varieties, such as *elegantissima* and *Whitmanii*, are without doubt in distinctly deco-

rative characteristics ahead of the old one, but in length and grace of frond they lack much of what the other possessors. Both are steadily on the increase in demand when plants are wanted for decorative effect. Most likely medium-sized plants will be called for in larger numbers than large plants. *Nephrolepis Scottii* has a place of no secondary importance among ferns. For fern dishes and pans *pteris* in variety and *Adiantum cuneatum* and *regina* should be on hand ready for use. It should never be lost sight of that color is an absolute necessity with the great majority of Christmas buyers of plants and that anything red has a decided advantage. That perhaps more than anything else places *dracaenas* near the front row of Christmas foliage plants. *Dracaena terminalis* is still the leader, not at all because of its superiority to many others, but because as yet it is the only one grown commercially in large numbers by reason of its supposed merits of endurance and easy culture. *Dracaenas Masangeana* and *amabilis*, though each distinct in habit and foliage from the other, are suitable for Christmas decoration, the former being particularly commendable because of its luxuriant foliage and comparative standing qualities. *Aucubas* and *aspidistras* should not be forgotten, because there are still many Christmas buyers shrewd enough to purchase these in preference to less serviceable material.

In flowering plants nothing old or new, common or uncommon in point of beauty and charming brilliancy excels or perhaps equals *Lorraine begonia*. *Cyclamens* are too well known as staple articles to need any helping remark. *Azaleas* are likewise well able to attend to their own soliciting. *Lilies*, all that will be in evidence as fit for use, will surely go without any trouble. Berried plants, such as *Jerusalem cherries* and *ardisias* are always favorites at this festival. *Poinsettias*, either in pans all to themselves or when tastefully combined with other plants in the formation of enticing arrangements, sell readily. These plants are also extremely effective for a window decoration. Every plant intended for sale should be clean and in shape days before it is likely to be sold. All baskets, hamper and the like should be filled before. Everything and everywhere should have the appearance of cheerfulness and prosperity. Good nature, good service and cheerful giving will all help to make a Merry Christmas.

ANTON SCHULTHEIS

Wholesale Plant Grower,
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Price List of Foliage, Flowering
and Decorative Plants sent free on
application.

**PREPARE FOR CHRISTMAS
CATCH UP
WATCH! PROSPERITY! LOOK!**

Waiting Means Suicide

NOTE OUR BARGAINS WE OFFER NOW

**WE HAVE ARAUCARIAS
TO BEAT THE BAND**

ARAUCARIA ROBUSTA, COMPACTA and GLAUCA, a house full of the finest in the land; 6 and 7-in. pots, 4, 5 and 6 years old, 3, 4 and 5 tiers, 17 to 30 inches in height, the same in width, \$1.50, \$1.75, \$2.00, \$2.50 to \$3.00 each.

ARAUCARIA EXCELSA, 3 years old, 5½ to 5½ in. pots, 10, 12 and 14 inches high, 3 tiers, 50c. each. 3 years old, 5½ in. pots, 15 to 17 inches high, 3 and 4 tiers, 60c. 4 years old, 6 in. pots, 20 to 22 inches high, 4 and 5 tiers, 75c. 5 years old, 6 in. pots, 22 to 26 inches high, 5 tiers, \$1.00. Specimen sizes, \$1.25 to \$1.50. Newly imported, nice little plants, 5 in. pots, 2 to 3 tiers, 40c.

KENTIA BELMOREANA and FORSTERIANA, 6 in. pots, 25 inches high, 5 leaves, \$1.00. 4 in., 18 to 23 inches high, 35c.

KENTIA BELMOREANA, 5½ in. pots, very bushy, 75c. 5 to 5½ in. pots, 50 and 60c.

LATANIA BORBONICA, 4 in., strong, 25c.

ADIANTUM HYBRIDUM, 6 in., 40 to 50c.

ARECA LUTESCENS, made up 3 plants in a 4 in. pot, 18 to 22 inches high, 20c.

FICUS ELASTICA, Belgian and home-grown, strong, fine plants, 5½, 6 and 7 in. pots, 25c., 35c., 50c., 75c.

ASPARAGUS PLUMOSUS NANA COMPACTA, 3 in., 7c., 4 in., 10c.

PRIMULA OBCONICA, best new strain, 4 in. in bloom, 15c.; coming into bud, 10c. 5½ in. pots, in bloom, \$2.50 per doz.; coming into bud, \$2 per doz.

CHINESE PRIMROSES, finest improved strain, 5½ in. pots, in bloom, \$2.50 per doz.

BEGONIA GLOIRE DE LORRAINE, in bloom and bud, 6 in., 50c., 75c. \$1 each; 4 in. 35c.; 3 in. 25c.

BEGONIA FLAMBEAU, 5½ in., 25c.

BEGONIA NEW IMPROVED ERFORDII, 4 in. 20c.; 5 in. pots, 25c.

DRACAENA BRUANTII, from Belgium, full of leaves, 6 in., 40c.

NEPHROLEPIS WHITMANII, 6 in., 50c., 75c. \$1 each; 7 in., as big as a bushel basket, \$1.25, \$1.50 each.

NEPHROLEPIS BOSTONI, 8 in., as big as a washtub, \$1. 5 to \$1.50 each. 7 in., very large, 75c. to \$1 each. 6 in., very large, 50c. 5 to 5½ in., 35c., 40c.

NEPHROLEPIS SCOTTII, 4 in., 25c.; 5 to 5½ in., 35c. to 40c.; 6 in., 50c. to 75c.; 7 in., \$1 to \$1.25.

NEPHROLEPIS PIERSONII, 6 in., 50c.; 5 to 5½ in., 35c. to 40c.; 4 in., 25c.

WILSONII FERNS, 5½ in., very attractive, good seller, 20c.

FERNS FOR DISHES, a good assortment, 2½ in., \$5 per 100.

SOLANUM OR JERUSALEM CHERRIES, full of berries, 6 in. pots, 25c., 35c., 50c.

AZALEAS FOR XMAS BLOOMING, pink, white and rose, 75c., \$1. \$1.25, \$1.50.

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CASH WITH ORDER, PLEASE
Please mention if pots are wanted. All goods
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2¼ in., \$5.00 per 100
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BAMBOO STAKES

AZALEAS for Forcing Christmas to Easter



Our stock this season is handsomer than ever. Anybody in want of a quantity will do well to inspect our plants before placing their order. We have only popular American varieties: *Schryveriana*, *Niobe*, *Paul Weber*, *P. of. Woiters*, *Raphael*, *Simon Mardner*, *Vervaeana*, *Louis de Kerchove*, *Mme. Van der Cruyssen*, *Deutsche Perle*, *Dr. Moore*, *John Llewellyn*, *Mme. Cam. Van Langenhove*, *Mme. Jos. Vervae*, *Paul de Schryver*, *Memorie de L'Van Ruyt*, *Sigismund Rucker* and others.

	Per doz.	Per 100		Per doz.	Per 100
8-10 in. diam.	\$3.50	\$25.00	15-16 in. diam.	\$9.00	\$75.00
10-12 " "	4.50	35.00	16-18 " "	12.00	90.00
12-14 " "	6.00	45.00	18-20 " "	25.00	200.00
14-15 " "	7.50	60.00	20-24 " "	36.00	300.00

Order early to save heavy express charges; impossible to ship by freight in cold weather.

FORCING ROOTS AND POT CROWN SHRUBS

	Doz.	100	1000		Doz.	100	1000
<i>Azalea Mollis</i> , \$4.00, \$6.00, \$12.00				<i>Gladiolus</i> , The Bride			
" " standard form 12.00				" rubra			\$7.50
" " chinensis 12.00				<i>Kalmia latifolia</i> , fine budded plants, \$9.00, 12.00			6.50
" " Anthony 12.00				<i>Lilacs</i> pot grown			
" " Rustica 12.00				<i>Lily of the Valley</i> , Berlin Pips			14.00
Very handsome budded plants.				" Hamburg Pips			12.00
<i>Crataegus</i> , Paul's Scarlet (Double scarlet Hawthorn) pot grown, \$12.00, 15.00				<i>Spiraea</i> , Blondin		5.00	
<i>Dielytra spectabilis</i> , large clumps, \$6.00				" Compacta		4.50	
<i>Deutzia gracilis</i> , pot grown 12.00				" Gladstone		7.00	
<i>Lemoinei</i> 15.00				" Japonica		4.50	
<i>Rhododendrons</i> , handsome budded plants in fine forcing varieties, \$9, \$12, \$15, \$18, \$24, \$30 per dozen.				" Queen of Holland		10.00	
				" Washington		10.00	
				<i>Viburnum opulus</i> (Snow-ball) bush form, pot grown		6.50	

Roses Grown in Our Nursery for Easter Forcing

	Dozen	100		Dozen	100	1000
BABY RAMBLERS , tree form, pot grown, 50c. each	\$5.00		LADY GAY , strong field grown plants, with well ripened wood, 2 years	\$3.50	\$25.00	
Bushy form, fine field grown plants	2.00	\$15.00	H. P. ROSES , imported, field grown, 2 years old	12.00	\$100.00	
CLOTHILDE SOUPERT , field grown, 2 year old	1.50	12.00	Capt. Christy, Duchess of Edinburgh, Gen. Jacqueminot, Mme. Gabriel Luizet, Mrs. John Laing, Perle des Blanchés, Ulrich Brunner, Caroline Testout, Frau Karl Druschki, La France, Magna Charta, Paul Neyron, Rothschild.			
DOROTHY PERKINS , strong field grown plants, 2 years old, 7-8 feet	3.00	20.00				
HERMOSA , field grown, fine for pots, 2 years old	1.50	12.00				

KENTIAS

The handsomest lot in the country; all sizes, from 15 inches to 15 feet. Inspect our stock before buying.

BOXWOOD, Standard

All sizes from \$1.00 to \$5.00 each

BOXWOOD, Pyramidal

These plants are conceded to be the finest ever imported to this country. (Exceptional value.)

2 ft. ....	.75 each	4 ft.	\$1.00 each
2½ ft.	1.00 each	4½ ft.	4.00 each
3 ft.	1.50 each	5 ft.	5.00 each
3½ ft.	2.00 each	6 ft.	6.00 each

BOXWOOD, Bush

Handsome, bushy specimens.
10-12 in. 15c each 15-18 in. 35c each
12-15 in. 25c each 18-22 in. 75c each

BAY TREES

We have a large number in all sizes. Ask for prices.

ORANGE PLANTS, well fruited, nothing less than 6 oranges, \$1.50, 2.00, 2.50, 3.00, 3.50 and 4.00 each

VISITORS INVITED.

ASK FOR CATALOGUE.

BOBBINK & ATKINS, Nurserymen and Florists, **Rutherford, N. J.**

GERANIUMS

NEW VARIETIES.—In New Varieties we make a special offer of one each of 100 varieties 1905 and 1906 introductions for \$10.00. This is acknowledged to be the finest collection ever offered in this country, coming as it does from such noted introducers as Bruant, Lemoine, Bouchlat and Cannell, is indorsement enough that in it will be found represented the highest state of development in Geraniums at the present time. Some of wondrous beauty in solid colors, others of exquisite combination of colors which baffles successful description, and would make grand acquisitions to any collection, possessing as they do special merit of such sterling qualities that we are satisfied they are destined to become the standards in their several different classes.

STANDARD VARIETIES.—In standard varieties we offer an immense stock in prime condition, for immediate shipment, at from \$2.00 to \$4.00 per 100. For \$18.50 we will send one thousand, 50 each of 20 varieties, our selection, single and double, all "A No. 1" kinds.

PELAGONIUMS.—In a good assortment, containing such kinds as *GALATEA*, *COUNTESS OF CREW*, *PURITY*, *COUNTESS OF WARWICK*, *GLORIOSA*, *TOMMY DODD*, &c. \$1.50 per doz. \$6.00 per 100.

	Per 100		Per 100
<i>Lantanas</i> , in 10 good varieties	\$2.00	<i>Alyssum</i> , Giant double	\$2.00
<i>Hardy English Ivy</i>	2.00	<i>Coleus</i> , 10 good varieties	2.00
<i>Fuchsias</i> , Black Prince	2.00	<i>Ageratum</i> , Stella Gurney, Inimitable	2.00
<i>Heliotrope</i> , good assortment	2.00	dwarf white	2.00

Cash with order.

R. VINCENT JR. & SONS CO., White Marsh, Md.

GALVANIZED WIRE STAKES

No. 9.

3 ft.	\$6.00 per 1000	5 ft.	\$ 9.90 per 1000
4 ft.	7.95 per 1000	6 ft.	11.90 per 1000

W. W. COLES, Kokomo, Ind.

HYDRANGEA OTAKSA Field grown. 6c. 8c. 10c and 15c each by the dozen or hundred. Fine stock.

VIOLET, IMPERIAL Field grown, \$5.00 per 100, \$45.00 per 1000, 250 at 1000 rate.

BAUR FLORAL CO., Erie, Pa.

Just Received in Splendid Condition

15,000 AZALEAS

in all sizes and varieties

25c. up to \$2.00 each

Also *Kentias*, *Rubbers*, *Araucarias*, *Pandanus*, *Boxwood*, *Euonymus*, *Crotons*, *Areca* and *Eurya latifolia*.

Extra good value in large

Specimen and Decorative Palms
A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale, Mass.

CINERARIAS

Fine plants from best European Sirain, strong and stocky, from 3½ and 4 in. pots, \$4.00 and \$5.00 per 100. Cash with order.

JOHN J. COONAN
Hudson Av., Haverstraw, N.Y.

Obituary

Mrs. Pauline Engelman.

Pauline, wife of Richard Engelman, florist, of Pittsfield, Mass., died on November 23, at the age of 46.

George D. Kelley.

George D. Kelley, employed at Lange's conservatories, Worcester, Mass., committed suicide on December 5. He was 30 years of age.

Abram L. Richards.

Abram L. Richards who, since 1894, has been a member of the Metropolitan Park Commission of Boston, died at his home in Watertown, Mass., on December 6, aged 78.

Rev. Joseph Jenks.

Rev. Joseph Jenks of Middleboro, Mass., who after retiring from labors in the missionary field in the west, entered upon the business of growing plants and flowers for the market, died on November 25, at the age of 62. A widow and daughter survive him.

Luke M. Deeds.

Luke M. Deeds of Shillington, Pa., aged 33, superintendent of the Deeds Floral Co., was asphyxiated with coal gas in his greenhouses where he went late in the evening of December 7 to attend to the fires. A widow and two daughters survive him.

Mrs. J. F. Huss.

We learn with deepest sympathy of the death of the wife of J. F. Huss, of Hartford, Conn., on December 2, after a long illness. She was a kind, true-hearted woman, assiduously devoted to her home, her husband and her three little children. To them the loss is, indeed, irreparable.

John Ringier.

John Ringier, traveling representative for Stumpp & Walter Co., New York, died at Zurich, Switzerland, on November 15, aged 36 years, after a long, painful illness with consumption of the throat. Mr. Ringier, who was a brother of Arnold Ringier of Chicago, was a faithful, loyal employe, popular with the trade and held in highest esteem by his employers.

Edward Keller.

At Norristown, Penn., December 2nd, aged 54. A member of the firm of Keller Bros., potters. He superintended the inside work and therefore did not come so much in contact with the horticultural trade as his brother Charles. He was a member of the Philadelphia Florists' Club, Beaver Tribe, No. 62, I. O. R. M., and Norris Lodge, No. 11, S. of H. Interment took place on the 7th inst. at Riverside Cemetery.

EXTRA FINE BOXWOOD \$17.50 per CWT.

GALAX LEAVES GREEN \$1.00 per 1000.
BRONZE, new crop in a few days.

Headquarters for **HARDY FERNS, MOSS, LAUREL, PRINCESS PINE, FESTOONING, Etc.**

Best Ferns in Market \$1.25 per 1000.

See Our Cut Flower Ad.

HENRY M. ROBINSON & CO., FLORISTS' SUPPLIES 15 Province St., and 9 Chapman Pl., BOSTON

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The club by invitation will hold a Field Day at Framingham on Saturday, December 14. A special Boston and Worcester car, kindly furnished by Mr. S. J. Goddard, will leave Park Square at 12 o'clock (noon) sharp; members and all other interested friends are invited to take it. Cars run every 15 minutes via South Framingham. The establishment of J. T. Butterworth will be first visited, later those of S. J. Goddard and William Nicholson.

The next regular monthly meeting of the club will be held at Horticultural Hall, Boston, on Tuesday evening, December 17, at 8 o'clock. This being the closing meeting of 1907, a very interesting program has been prepared, and it is hoped that the attendance may prove the largest of the year.

GALAX FROM FIRST HANDS

GALAX { Bronze, small to med. size.....35c 1000
" medium size.....40c 1000
" large size.....45c 1000
Green, medium size.....40c 1000
" large size.....45c 1000

Terms: Strictly cash, f.o.b. Galax, Va.

W. M. WOODRUFF & SON, Lowgap, N. C.

GALAX LEAVES

New crop, fresh from the patch, prices as follows:

Bronze and Green Galax Leaves.....\$0.50 per 1000
Fancy and Dagger Ferns.....1.00 per 1000
Green Leucothoe Sprays.....2.50 per 1000
Bronze.....4.00 per 1000
Rhododendron Sprays.....2.50 per 1000
Kalmia or Mountain Laurel.....2.50 per 1000

Discount on large orders. Fourteen years' experience enables me to guarantee perfect satisfaction. 250 customers now in U. S. Send cash with first order.

J. N. PRITCHARD, Elk Park, N. C.



FANCY AND DAGGER FERNS

Best quality, 75c. per 1000.

BOUQUET GREEN, 7c. per cwt.

CHRISTMAS TREES

by the car load or any way you want them.

ROBERT GROVES

127 Commercial St., ADAMS, MASS.

Christmas Greens from the Maine Woods

Fine Fir Balsams for Christmas trees up to ten feet at reasonable prices. Also Hemlock and Fir Balsam boughs for decorations any lengths wanted. \$1.00 per 100 lbs.

CHAS. L. CHADBORNE
North Bridgton, Me:

E. A. BEAVEN

Southern Wild Smilax, Log Mosses,

Natural and Perpetuated — at Wholesale,

EVERGREEN, ALABAMA.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1½ or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

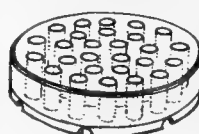
N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

KORAL SCRIPT LETTERS AND EMBLEMS

ONCE USED ALWAYS USED
For sale by all first class supply houses. Made by

KORAL MFG. CO.
26 Hawley St., Boston

The "Japana" Cut Flower Holder



A handy article for florists. Sells to the trade on sight. Made of glass in three sizes. The "Anglais" Table Decoration, something entirely new, long needed. The florist and housewife will appreciate this article, as it simplifies the art of table decorating.

Ask for catalog.

M. V. GARNSEY, Dept. D,
30 Waiola Ave., La Grange, Ill.



TIME

The most valuable item at Xmas is time. Nothing will save as much time as the Ever Ready Cover designed by a practical florist, filling a long felt want. Neat and durable enough to use on any plant and waterproof. Send ten cents for cover, price list and booklet.

EVER READY FLOWER POT COVER CO.

W. H. GREVER, Mgr., 146 Hughes Ave., Buffalo, N. Y.

BOXES BOXES BOXES

LIGHT WOOD CUT FLOWER BOXES

Sizes in Stock per 100

3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

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**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
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DENVER, COLORADO

WILLIAM L. ROCK FLOWER CO.

KANSAS CITY, - MO.

will carefully execute orders for Kansas City
and any town in Missouri or Kansas.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N.Y.

NEWS NOTES.

W. H. Duncanson, St. John, N. B.,
is about to embark in the florist busi-
ness.

The American Rose Co. has closed
its stand in the Centre Market, Wash-
ington, D. C.

John A. Burnham, Wenham, Mass.,
is laying out a rose garden on an ex-
tensive scale, on his estate.

Bertha, the twelve years old daugh-
ter of William Walker, florist, of Lou-
isville, Ky., was run down by a street
car and seriously injured on Novem-
ber 27.

The Portsmouth, N. H., Times con-
tains interesting sketches of the
growth of the business conducted by
R. E. Hannaford and Robert Capstick,
the enterprising florists of that city.

John Marshall has leased "By the
Sea" greenhouses, Newport, R. I.,
from Mr. Perry Belmont. He will run
the greenhouses on a commercial basis
and will grow roses and carnations
principally, with a general line of
plants and cut flowers.

NEW RETAIL FLOWER STORES.

Frank Yetter, Greenfield, Mass.
Julius Eppstein, St. Francis Hotel,
San Francisco, Cal.



PROMPT DELIVERY IN BOSTON

AND ALL NEW ENGLAND POINTS
HOUGHION & CLARK
396 Boylston St., Boston, Mass.

Send flower orders for delivery in

BOSTON

and all
NEW ENGLAND POINTS
THOS. F. CALVIN
124 Tremont St., Boston

TRANSFER

Your orders for flower or plant delivery in
Eastern New England to

JULIUS A. ZINN,
2 Beacon St., Boston.

Fine Design Work a Specialty.

Theodore Miller FLORIST

Long Distance Phones: Bell, Forest 56; Kinloch, Delmar
4832 Delmar Boul. ST. LOUIS, MO.

ATLANTA FLORAL CO.

41 Peachtree Street, ATLANTA GEORGIA.

Florists Out of Town

Taking orders for delivery in
New York or Vicinity
can have them filled in best
manner and specially deliv-
ered by * * *

Thomas Young, Jr.

41 W. 28th St., New York City

ALEX. McCONNELL

571 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
transferred or intrusted by the trade to
our selection for delivery on steamships
or elsewhere receive special attention.

Telephone Calls, 487 and 488 38th St.
Cable Address, ALEXCONNELL

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FLORAL DECORATOR

17 East 28th St., New York

Special Attention to Theatre
and Steamer Orders, and reliable
deliveries guaranteed.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or telegraph

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Telephone 1552-1553 Columbus

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1193 Broadway,
NEW YORK.

Send your orders to the King of Floral Artists.

Flower Deliveries

In Brooklyn and other Long Island Points
New York City, New Jersey, etc. At Theatres,
Hotels, Steamers or Residence-s.

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Fulton St. and Greene Ave., Brooklyn, N.Y.

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42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

William J. Smyth FLORIST

Cor. Michigan Ave. and 31st St., CHICAGO

We ship to all points in Illinois and Iowa.

Phones: Douglas 744, Douglas 523, Douglas 746

JACOB SCHULZ, 644 Fourth Ave.,
LOUISVILLE, KY.
Cut Flowers of BEST QUALITY in season
delivered promptly to any address.
Write, Telegraph or Telephone.
Cumberland and Home Phones 223 and 984

BEAUTIES for CHRISTMAS

Our growers report favorable both as to **QUALITY** and **QUANTITY**.
We have never failed to fill all orders entrusted to us in that line. If
you want **QUALITY**, you had better place your orders with us.

GET OUR QUOTATIONS ON LARGE QUANTITIES

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Open from 7 a. m. to 8 p. m.

EVERYTHING SEASONABLE IN
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STORE CLOSES 8 P. M.

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51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
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MANUFACTURERS
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AMERICAN BEAUTY and all other
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LILY OF THE VALLEY, CARNATIONS
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Bronze Galax

\$7.50 per Case.

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DAILY CONSIGNMENTS

From 40 to 60 Growers

We can care for your cutflower wants to
advantage.

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Grow and Ship the Finest

AMERICAN BEAUTIES

In the World

35-37 Randolph St., - CHICAGO, ILL.

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	Dec. 10		Dec. 12		Dec. 12		Dec. 12	
ROSES								
Am. Beauty, Fancy and Special...	30.00	to 40.00	40.00	to 55.00	30.00	to 40.00	35.00	to 35.00
" Extra	25.00	to 30.00	30.00	to 45.00	25.00	to 30.00	15.00	to 25.00
" No. 1	20.00	to 25.00	20.00	to 26.00	10.00	to 20.00	10.00	to 15.00
" Lower grades	12.00	to 15.00	2.00	to 12.00	6.00	to 10.00	4.00	to 8.00
Bride, 'Maid, Fancy & Special	8.00	to 10.00	6.00	to 8.00	8.00	to 12.00	6.00	to 8.00
" Extra	6.00	to 8.00	.....	to 6.00	6.00	to 8.00	5.00	to 6.00
" Lower grades	4.00	to 5.00	3.00	to 4.00	3.00	to 6.00	1.00	to 4.00
Killarney, Richmond, Fan & Sp.	6.00	to 8.00	8.00	to 12.00	10.00	to 12.00	6.00	to 8.00
" Lower grades	4.00	to 5.00	4.00	to 8.00	3.00	to 8.00	1.00	to 4.00
Chat'nay, Wellesley, Fan & Sp.	7.00	to 8.00	6.00	to 10.00	8.00	to 12.00	6.00	to 8.00
" Lower grades	4.00	to 5.00	4.00	to 5.00	3.00	to 6.00	1.00	to 4.00
Golden Gate Ivory	4.00	to 6.00	3.00	to 8.00	4.00	to 6.00	2.00	to 5.00
CARNATIONS								
Fancy and Novelties	4.00	to 5.00	4.00	to 6.00	4.00	to 6.00	2.00	to 4.00
Ordinary	2.00	to 3.00	2.00	to 4.00	1.50	to 3.00	1.00	to 2.00
MISCELLANEOUS								
Violets	.75	to 1.00	1.00	to 1.50	.50	to 1.50	.50	to .75
Cattleyas	50.00	to 75.00	40.00	to 50.00	60.00	to 75.00	75.00	to 100.00
Cypripediums	15.00	to 20.00	.....	to 15.00	to 20.00	to 20.00	15.00	to 17.00
Lilies	12.00	to 15.00	15.00	to 20.00	12.50	to 15.00	10.00	to 12.00
Lily of the Valley	3.00	to 5.00	3.00	to 5.00	2.00	to 5.00	2.00	to 3.00
Roman Hy., Paper White Nar.	3.00	to 4.00	3.00	to 5.00	3.00	to 4.00	2.00	to 3.00
Poinsettias	25.00	to 30.00	18.00	to 40.00	25.00	to 35.00	25.00	to 35.00
Stevia	1.00	to 2.00	1.50	to 2.50	.....	to 1.00	.....	to 1.00
Mignonette	3.00	to 6.00	4.50	to 7.00	3.00	to 6.00	4.00	to 6.00
Chrysanthemums	8.00	to 15.00	15.00	to 25.00	5.00	to 15.00	8.00	to 10.00
Adiantum	.75	to 1.00	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax	15.00	to 16.00	12.00	to 15.00	12.50	to 15.00	8.00	to 12.00
Asparagus Plumosus, strings	35.00	to 50.00	35.00	to 40.00	35.00	to 75.00	.....	to 50.00
" " & Sprea. (100 bchs.)	35.00	to 50.00	35.00	to 40.00	35.00	to 50.00	20.00	to 50.00

THE FLORISTS' SUPPLY HOUSE OF AMERICA

Without a rival in knowledge of the requirements of the trade and the ability to supply them. Our New Illustrated Catalogue, recognized as a work of art unprecedented in its line for variety, novelty and completeness, tells the story fully, and if you have not yet sent for it, do so now.

'TIS FREE TO EVERYBODY IN THE TRADE

H. BAYERSDORFER & CO., 1129 Arch St., Philadelphia, Pa.

Holly and Holly Wreaths

Our personal selection from a visit
to the best producing centers

\$4.00 and \$5.00 per case

Wreaths, \$12.00 and \$15.00 per 100

BERGER BROS. Wholesale Commission Florists
1305 Filbert Street, PHILADELPHIA

To the Growers:

With our new and improved facilities we can handle your products more satisfactorily than most. We solicit new accounts and can guarantee satisfaction.

To the Dealers:

We can furnish the best the market affords in all staples; and also many exclusive specialties. Nothing too much trouble. Try us.

ASPARAGUS PLUMOSUS A SPECIALTY

ALFRED M. CAMPBELL, Wholesale Commission Florist
1510 Sansom St., PHILADELPHIA

CHRISTMAS TRADE IN PHILADELPHIA.

And Some News Items of That Busy City.

The Christmas trade here is now in full swing, many of the producers working far into the night, and even on Sundays, to get orders off on time. As Robert Craig says, it is a serious problem how to do a year's business in ten days; but it has to be done somehow.

One of the most satisfactory holiday plants this year is the new Christmas azalea Mme. Petrick. Azalea forcing, for the Christmas trade, has made big strides in the past ten years. Among other popular subjects every year are the cyclamen and the poinsettia. A ten-inch pan of poinsettia with Asparagus plumosus trimming, is "an irresistible" to the average buyer—if well finished as to flower and foliage.

E. T. Alburger succeeds the firm of Alburger & Cascaden, Manayunk; Mr. Cascaden retiring on account of impaired health. The greenhouses at West Laurel Hill and the store at Manayunk will be continued as heretofore by Mr. Alburger.

That cheerful optimist, Godfrey Aschmann, is quite confident that Christmas trade this year will be just as good as last year. In fact, from the way stock is moving off now, many things will be scarce before the rush is over. Mr. Aschmann is a bright and persistent advertiser, and delights to be classed among those who have "made Philadelphia famous" in the plant trade.

West Philadelphia has been coming to the front the past few years in increase of population which has of course been the incentive for many new flower stores. Among the most recent is that of Bayne & Co. at 52nd and Spruce. The firm is composed of Frank Bayne and George Phile.

If an automobile be the sign manual of prosperity the flower growers of this nook of the country must have been greatly favored by "the Goddess" of late. Some of them, as A. B. Cartledge says, can afford to have one for every member of the family. The retailers have not been so fortunate but now that a bear market is on they hope to have their innings. With this laudable ambition we are in entire sympathy. The dear public never appreciates our products until we have

the nerve to charge full value for them.

Thomas J. Burns, whose sweet pea product is always first-class, has found the season unusually favorable for his crops this season. Pink Christmas and White Christmas are his mainstays and while he tries all the new ones he still hangs fast to that which he finds good.

We hear that the crop of cut poinsettias is not as large as usual this year which will make them the more appreciated. They were rather overdone last season.

The mushroom growing business has not been as profitable this year. Mr. Crawford who has a large plant at Secane informs us the prices are only about half what was expected to date.

Mr. Grakelow of the Depot Floral Exchange seems to have survived his strenuous night at the Florists' Club unscathed. We trust he will by and by modify his views on the fakir. The older generations have gone through the anti-fakir fever and now recognize that institution as a pretty good piece of hardware for all concerned.

Imported holly trees are particularly well berried this season. The Robert Craig Co. and others have a specially fine stock of them and find the demand beyond their expectations.

W. E. McKissick is now well warmed to his commodious new quarters at 1619-21 Ranstead St., in the heart of the market for the wholesale trade of Philadelphia. The change has infused new vim and vigor into the organization which is saying much, considering the vigorous and healthful life led at the old stand.

A Fine Assortment of

==AZALEAS==

Extra fine lot of **FIREFLY** in bloom from

CHRISTMAS to EASTER

WRITE FOR PRICES

MAJOR BONNAFFON

The best all 'round Yellow Chrysanthemum. Strong stools,
\$5.00 per 100

W. W. EDGAR CO., Waverley, Mass.

BUSINESS CHANGES.

Henry Barton, Westfield, Mass., has moved his florist business into larger and more convenient quarters on the opposite side of Elm street.

Simon Colitz has purchased the retail flower store of Jonas Brooks at Woonsocket, R. I.

Get the Habit

"The oldest wholesale florist in Phila" invites you to try his experienced and careful methods in wholesaling. No frills. No catch-penny schemes. Straight bed-rock all the time.

Wm. J. Baker WHOLESALE COMMISSION FLORIST
South Penn Square PHILADELPHIA

ROBERT J. DYSART,
Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

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Telephone, Main 38

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WHOLESALE DEALERS

Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen.

JOHN YOUNG**WHOLESALE FLORIST**Finest American Beauties and
Carnations**51 West 28 St. - NEW YORK****FORD BROTHERS**

48 West 28th Street, NEW YORK

FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

Telephone, 3870 or 3871 Madison Square

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Wholesale Commission Florist,

Choice Cut Flowers,

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Telephones: 2200, 2201, Madison Square.

The Reliable Commission HouseRichmond Roses and Rich Flowers
of all varieties**JOS. S. FENRICH**

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Tel. 324-325 Madison Square

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Telephone 3924 Madison Square.

JOHN I. RAYNOR**Wholesale Commission Florist** SELLING AGENT FOR
LARGEST GROWERSA full line of Choice Cut Flower stock for all purposes. Comprises every variety
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ORCHIDS A SPECIALTY**THE HIGHEST GRADE OF **VALLEY** ALWAYS
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CARNATIONS, DAISIES, ROSES AND CARNATIONS

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JAMES McMANUS, 759 Mad. Sq. 42 W. 28th St., New York**PHILIP F. KESSLER**

55 & 57 W. 26th St., New York City

Commission Dealer, Wholesale Buyer
and Seller ofOpen from 5 a. m. to 6 p. m. Sunday
till 10 a. m.

Tel., 5243 and 2921 Madison Sq. Res., 345 J., Newtown.

Finest Lilies in the Market Every Day in the Year.**CUT FLOWERS****WHOLESALE
COMMISSION
FLORIST**

OPEN 6 A.M. DAILY

J. K. ALLEN106 W. 28 ST.
NEW YORKTelephone 167
Madison Sq.

We have a good regular outlet for seasonable flowers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Dec. 7 1907	First Half of Week beginning Dec. 9 1907		Last Half of Week ending Dec. 7 1907	First Half of Week beginning Dec. 9 1907
Roses			Cattleyas	..... to 75.00	..... to 75.00
Yam. Beauty, fan and sp.	10.00 to 20.00	10.00 to 20.00	Cypripediums	15.00 to 7.00	15.00 to 17.00
" extra	8.00 to 10.00	8.00 to 10.00	Lilies	4.00 to 8.00	4.00 to 8.00
" No. 1	5.00 to 8.00	5.00 to 8.00	Lily of the Valley	1.00 to 2.00	1.00 to 3.00
" Lower grades .....	..... to 10.00	..... to 1.00	Gardenias	10.00 to 25.00	10.00 to 25.00
Bride, 'Maid, Golden Gate, fan & sp	4.00 to 8.00	4.00 to 8.00	Roman Hy., Paper White Nar. ..	2.00 to 3.00	2.00 to 3.00
" " " " extra ...	2.00 to 3.00	2.00 to 3.00	Poinsettias	25.00 to 35.00	25.00 to 35.00
" " " " lwr.grds.	1.00 to 1.50	1.00 to 1.50	Stevia .....	..... to .00	..... to 1.00
Killarney, Richmond, fancy & spec	4.00 to 8.00	4.00 to 8.00	Mignonette	4.00 to 8.00	4.00 to 8.00
" " " " lower grades	1.00 to 1.50	1.00 to 1.50	Chrysanthemums	8.00 to 12.00	8.00 to 12.00
Chatenay, Wellesley, fan. and spec.	5.00 to 8.00	5.00 to 8.00	Adiantum	1.00 to 1.50	1.00 to 1.50
" " " " lower grades.	1.00 to 3.00	1.00 to 3.00	Smilax	8.00 to 12.00	8.00 to 12.00
Golden Gate, Ivory	1.00 to 5.00	1.00 to 5.00	Asparagus Plumosus, strings...	25.00 to 40.00	25.00 to 40.00
Carnations, Fancy and Novelties...	2.00 to 4.00	2.00 to 4.00	" " & Spreng. (too bchs.)	..... to 15.00	..... to 15.00
" Ordinary .....	..... to 1.00	..... to 1.00			
Violets .....	.30 to .60	.30 to .60			

B. S. SLINN, Jr.

—WHOLESALE FLORIST—

55 & 57 W. 26th St., New York City

Tel., 3864 Madison Sq. Shipping Orders Solicited.

VIOLETS Roses and
Carnations**Edward C. Horan****Wholesale Florist**

55 WEST 28th ST.

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TRAENDLY & SCHENCK
WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on full orders

Tel. 798-799 Madison Sq.

44 West 28th Street, New York City

Alexander J. Guttman
THE WHOLESALE FLORIST OF NEW YORK
43 WEST 28th STREET
PHONES. 1664-1665 MADISON SQUARE
ENOUGH SAID



HARDY CUT FERNS

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Am. Beauty, Fan. and Sp.	35.00 to 40.00	50.00 to 60.00	25.00 to 35.00	25.00 to 30.00
“ Extra	25.00 to 35.00	35.00 to 40.00	15.00 to 25.00	14.00 to 20.00
“ No. 1	15.00 to 20.00	20.00 to 30.00	10.00 to 12.00	8.00 to 10.00
“ Lower grades	8.00 to 10.00	8.00 to 12.00	5.00 to 10.00	4.00 to 5.00
Bride, 'Maid, F. & S.	8.00 to 10.00	8.00 to 10.00	6.00 to 10.00	8.00 to 10.00
“ Extra	4.00 to 6.00	6.00 to 8.00	5.00 to 10.00	..... to 6.00
“ Low gr. ....	.....	4.00 to 6.00	4.00 to 5.00	3.00 to 4.00
Killarney, Richmond, Fan. & Sp.	8.00 to 10.00	8.00 to 10.00	6.00 to 10.00	8.00 to 10.00
“ Lower grades	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Chatenay, Wellesley, Fan. & Sp.	8.00 to 10.00	8.00 to 10.00	6.00 to 10.00	6.00 to 8.00
“ Lower grades	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	3.00 to 5.00
Golden Gate, Ivory	4.00 to 8.00	8.00 to 10.00	4.00 to 8.00	3.00 to 6.00
CARNATIONS				
Fancy and Novelties .....	..... to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Ordinary	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	..... to 2.00
MISCELLANEOUS				
Violets	75 to 1.00	1.25 to .....	.75 to 1.25	.75 to 1.00
Cactuses	75.00 to 100.00	50.00 to	75.00 to 100.00	65.00 to 75.00
Cypripediums .....	.....	.....	.....	.....
Lilies	12.50 to 15.00	15.00 to	4.00 to 15.00	15.00 to 18.00
Lily of the Valley	4.00 to 5.00	4.00 to	3.00 to 5.00	3.00 to 4.00
Roman Hy., Paper White Nar.	3.00 to 4.00	3.00 to	2.00 to 3.00	3.00 to
Poinsettias	15.00 to 25.00	.....	.....	.....
Stevia .....	..... to 1.00	..... to 1.00	..... to 1.00	..... to 1.00
Mignonette	3.00 to 6.00	..... to	3.00 to 6.00	3.00 to 6.00
Chrysanthemums	8.00 to 15.00	10.00 to 25.00	5.00 to 20.00	.....
Adiantum .....	..... to 1.00	1.00 to 2.00	.50 to 1.00	1.00 to 1.25
Smilax	12.00 to 15.00	12.50 to .....	..... to 15.00	15.00 to 18.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 75.00	50.00 to 60.00	25.00 to 50.00
“ & Soreen (for bcha.)	25.00 to 35.00	20.00 to 40.00	25.00 to 50.00	30.00 to 40.00

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Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dysart, 28 State St., Boston.
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Aquarium plants, the year around. Wholesale and retail. Send for price list.
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Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100; \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa.; or Wm. F. Kasting Co., 385 Elliott St., Buffalo, N. Y.

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Horticultural Products of Every Description.
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Sales every Tuesday and Friday. If you cannot attend send bids and shipping instructions. Catalogues on application. N. F. McCarthy & Co., 84 Hawley St., Boston.

AZALEAS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
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W. W. Edgar Co., Waverley, Mass.
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Yokohama Nursery Co., 31 Barclay Street, New York.
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BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOXWOOD

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Henry M. Robinson & Co., 15 Province St., Boston.
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BUILDING MATERIAL of all description for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.
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J. M. Thornburn & Co., 33 Barclay St., New York.
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Callas, Narcissi, Dutch Bulbs.
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Aug. Rolker & Sons, 31 Barclay St., New York.
Seasonable Import Plants and Bulbs.
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John Scheepers & Co., 4 and 6 Old Slip, New York.
Lily of the Valley Excellenta.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Tulips, Hyacinths, Narcissi, Crocuses.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

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Field Grown

Chicago Carnation Co., Joliet, Ill.
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Chrysanthemum Stock Plants.
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W. W. Edgar Co., Waverley, Mass.
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Chrysanthemums, reading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2-12 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums, strong stock plants of Bonaffon, Enguehard, Nonin, J. Jones, etc., \$4.00 per 100. Rooted cuttings of Clay Frick and Beatrice May, \$5.00 per 100. Frank Shearer & Son, Binghamton, N. Y.

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Oak Hill Nurseries, Roslindale, Mass.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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32 and 33 South Market St., Boston.
High-Grade Scotch Soot.
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FLORISTS' GREENING PINS
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FLORAL PHOTOGRAPHS
Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

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Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
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Long distance telephone connections.

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Finest green and bronze Galax in any quantity at lowest figures. N. F. McCarthy, 84 Hawley St., Boston.

We Have It.
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Arthur Cowee, Meadowvale Farm, Berlin, New York.
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E. S. Miller, Wading River, N. Y.
Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

Gladiolus Bulbs, Groff's Hybrids, extra large and nice bulbs measuring as high as 10 and 12 inches in circumference, \$1.50 per 100; \$12.00 per 1000. Cash. E. A. Muchow, Clarence, N. Y.

Gladioli Colvilli Alba, \$1.00 per 100; \$7.50 per 1000. Gladioli Rosea, \$1.25 per 100; \$9.00 per 1000. America, light pink, immense flower, \$1.00 per doz.; \$7.50 per 100. Cushman Gladiolus Co., Sylvania, O.

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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

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GREENHOUSE BUILDING MATERIAL.
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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

D. Hliffe, 49 Washington St., N., Boston Piping and Construction.

GREENHOUSE CONSTRUCTION
GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouse, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

J. A. Payne, 260-274 Culver Ave., Jersey City, N. J.
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I. Cassidy, 215 to 221 Randolph Ave., Jersey City, N. J.
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GREENHOUSE HOSE
Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS
GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HAIL INSURANCE
Florists' Hall Assn. of America.
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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY HERBACEOUS PLANTS
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Samuel C. Moon, Morrisville, Penna.
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HOLIDAY PLANTS

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Carman's Anti-pest.
Perfection Chemical Co., Flushing, N. Y.
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Nicotide kills all greenhouse pests.
P. R. Palethorpe Co.,
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JAPANA CUT FLOWER HOLDER

M. V. Garnsey, 130 So. Waiola Av., La
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Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

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William J. Smyth, Michigan Ave. and 31st
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Mills the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILY OF THE VALLEY

The F. R. Pierson Co., Tarrytown-on-
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Cold Storage.

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Ornamental Nursery Stock.

Nursery Stock. N. F. McCarthy & Co.,
84 Hawley St., Boston, Mass.

BERBERIS THUNBERG AND IBOTA
PRIVET SEEDLINGS. 100,000 in 3 grades;
extra fine. Write for prices and samples.
The Continental Nurseries, Franklin, Mass.

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Kentia, Phoenix, etc., all sizes. Write
for new price list. Julius Roehrs Co.,
Rutherford, N. J.

PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse
lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice pansy plants, 50c. per 100; \$4.00
per 1000. Cash. Aug. Zirngiebel, Need-
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PATENTS

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Orchid peat, Rotted peat, Azalea peat,
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PIPE AND FITTINGS. Cast Iron and
Wrought Pipe, Valves, Elbows, Pipe Hooks,
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

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Mineralized Rubber Co., 18 Cliff St., N. Y.
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H. N. Hoffman, Elmira, N. Y.
Primroses, old-fashioned dble. white,
strong. Plants full of bloom, 10 cents.
Levant Cole, Battle Creek, Mich.

PRUNING SHEARS

Rhodes Mfg. Co., Grand Rapids, Mich.
Dept. R.

RAFFIA

Samples free. Large assortment of
colors. R. H. Comey Co., Camden, N. J.,
or, 810-824 Washburn Ave., Chicago.

We Have It.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
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400 varieties; own roots; summer grown.
Leadle Company, Springfield, Ohio.

Low-budded roses, No. 1, \$95.00; No.
11-2, \$65.00 1000. H. T. Jones, Elizabeth,
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Crimson Ramblers, extra strong, 3-yr.,
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Antigonon leptopus, per lb. \$1.25; oz. 15c.
Ada J. Brooks, grower, Sorrento, Fla.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. I.

We Have It.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

Sphagnum Moss and Peat, fresh stock;
Floral Moss a specialty. Guaranteed to
give satisfaction. Write for prices. W. H.
Stackhouse, prop., Box 11, Waretown, N. J.

SPIREA

Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schnitz, Prince Bay, N. Y.

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E. Hippard, Youngstown, O.

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The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

We Have Them.
Send for New Illustrated Catalogue.
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SOUTHERN WILD SMILAX: LOG MOSSES.

E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.

WHOLESALE FLORIST.

Wm. J. Baker, South Penn. Square,
Philadelphia, Pa.
For page see List of Advertisers.

WHOLESALE PLANT MARKET.

Samuel A. Woodrow, 53 W. 30th St., New
York.
For page see List of Advertisers.

BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

Is Your Name In The Above List? If Not, Why Not?

FLOWER MARKET REPORTS

The local market has had a pretty dull time of it for the past few days. Receipts have been heavy on most lines and the outlet very restricted. Those engaged in shipping flowers to outside points have had rather the best of it, as the rural demand has been much better than the local. This has resulted in the unloading of much of the medium grade flowers and left the fancy qualities to seek an outlet through the very sluggish local trade and prices on choice material have been inclined to sag, much to the mental disturbance of those who think it is time to begin to brace up preparatory to the traditional holiday values. By next week we shall be able to speak more certainly with regard to Christmas prospects.

Christmas being only a short time away, florists' windows are adorned with holly, mistletoe and decorative greens, and all are beginning to realize that they must get in trim for a good hustle. In the flower line there is much to be said; the question is whether prices be as high as previously. There has been very little, if any, advance on any line, as the supply has exceeded the demand; at times, certain lines being sold out, something else is substituted. White carnations are in demand the past week and a trifle scarce. Colored varieties, short-stemmed were in oversupply and the moving prices ran quite low. As for fancies, there was little trouble in disposing of them. American Beauties were in fine quality, but remained in the cold places most of the time, hoping for something to turn up. Lilies, longiflorum, speciosum and auratum—were on the fence, while lily of the valley is still on the quiet list, although of excellent quality. Shipping trade is beginning to awaken; inquiries and orders are slowly coming in for decorative stock. The warm weather which was here the latter part of the week made the wholesalers feel somewhat uncomfortable. It is hoped that things will brighten up daily, as the trade is ready to meet a good holiday rush.

There is neither special brightness nor special gloom attached to the business in this locality. Supply is rather short. While fears are entertained as to what Christmas will be it is conceded rather early to speculate on that. We are all praying here that this uneasiness may cause the grower to abstain from pickling his product. It may be like preaching to the vultures, but we still live in the hope that the wholesaler may see the light some day and nail up his pickling vat.

Quite an improvement manifested itself in trade the past week, cut flowers in particular moving much better. Notable social events were quite numerous which required good stock in liberal quantities. There seems to be plenty of good roses, carnations, staevia, lily of the valley, Paper Whites, Roman hyacinths, and other seasonable stock.

The chrysanthemum season practically closed with last week. The plantmen will now have their inning. The majority of the growers hereabouts are showing a good stock of plants and flowers for the Christmas trade. Azaleas, lilies, begonias, poinsettias and other plants are making an unusually good showing. The men who handle greens for Christmas are very much in evidence and it is remarkable where all the green stuff goes as there are any number of new dealers in the evergreen business each year.

The standard of quality of all varieties of flowers in this market is unusually high this season. On some things it is unprecedentedly good. This does not, however, seem to help on the price and sales are made, as a rule, only after a long argument between buyer and seller as to what the figure shall be. In a general way prices are gauged a little stronger than last week, but on most staples the supply is so greatly in excess of the demand that little can be accomplished in that direction. Orchids are very scarce, the call for cattleyas being far beyond the present supply. Lily of the valley is at the other end of the proposition and much of it is sold at a figure below the cost of the pips. Violets are superb but minimum prices rule everywhere.

Conditions early part of last week were merely a repetition of the one preceding, but picked up towards the end. At this writing, shipments are not quite so heavy and prices are stiffening a little on some items. This is especially true of Beauty roses, fancy teas, carnations and orchids. Beauties were never better in quality, but prices are away below normal. Carnations are not so plentiful and the difference in prices here is not so marked. There are still quite a few good chrysanthemums coming in. The violet market is in pretty fair shape. Lily of the valley is of first-class quality, but demand is sluggish. Orchids are scarce with demand healthy. Paper whites are in heavy supply; Roman hyacinths enough for healthy conditions. Gardenias are in good supply and go fairly well. Sweet peas very good for the season; demand not brisk. Mignonette on the scarce side, with demand good. Plenty of bouvardia, and moving nicely. Market for greens normal. Bookings for Christmas plants, holly and other stock not quite so heavy as last year at this date—yet good judges look for a scarcity on this class of goods pretty soon. Quality is extra fine all along the line.

The past was a fairly good week. Wholesalers report business good; retailers are not overworked, all the same most of them are kept busy. Carnations are still short. Poinsettias are not very plentiful either but another week will see enough of them on the market.

There is an activity in all the stores, which is always incident to an approaching holiday. All the stores are in holi-

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

MUNICIPAL CIVIL SERVICE COMMISSION,
299 Broadway.

AMENDED NOTICE.

New York, November 29, 1907.
PUBLIC NOTICE IS HEREBY GIVEN that the time for receiving applications for the position of GARDENER has been extended until 4 P. M., MONDAY, DECEMBER 30, 1907. The examination will be held on WEDNESDAY, JANUARY 22, 1908, at 10 A. M. The subjects and weights are Special, 6; Experience, 4. The provisions of clause 12 of Rule VII, to the effect that "no person who has entered any examination for appointment to a competitive position and failed therein or who has withdrawn therefrom, shall be admitted within nine months from the date of such examination to a new examination for the same position," is waived so far as it applies to this examination.

For further information apply to the Secretary.

F. A. SPENCER, Secretary.

WANTED—Two first-class commercial greenhouse assistants experienced in growing a general line of high class plants. Wages \$15 per week and room. Apply with references. Address Plants, care Horticulture.

WANTED—At once, a good, sober, practical florist, who can do design work, grow roses and carnations; state wages expected with board and lodging; also references. H. B. Brubeck, Box 196, Rockville, Ind.

SITUATIONS WANTED

SITUATION WANTED by a reliable gardener, good grower of flowers, fruit and vegetables under glass and outside, fully experienced in all branches of work on a well kept private place; single, age 29. Address R., care HORTICULTURE.

FOR SALE

Suburban Florist Store FOR SALE CHEAP

Fine location for local trade; two years established. Fitted with ice chest, counters, etc., for immediate occupancy. A good chance for industrious party.

Address C. Care Horticulture, Boston.

FOR SALE—A well equipped new greenhouse, 80 feet long, 21 feet wide; new boiler house, new boiler and pipes and four other greenhouses, 60 feet long, attached. A large house, 12 rooms; also stable. A most desirable place in city of 15,000, and the oldest greenhouse plant in this section, and doing the largest business; or to rent to a man of energy and push. Chas. Z. Taylor, Middletown, N. Y.

TO LET

TO LEASE

For a term of years. Four Greenhouses containing about 40,000 ft. of glass. Low rent and a good market. For particulars address

N. F. MCCARTHY & CO.
84 Hawley Street Boston, Mass.

day attire and make a most attractive appearance. Everything is selling readily and at good prices.

PETROLEUM EMULSION FOR THE SAN JOSE SCALE.

Bulletin No. 49 of the Storrs Experiment Station by C. D. Jarvis, treats of a new remedy for the San Jose scale. The lime-sulphur wash, which for a number of years has been considered the standard remedy, has many undesirable qualities. It is corrosive to man, to horses and to spraying apparatus; its preparation requires care, time and an elaborate outfit; it must be applied while warm, and if applied in the fall frequently causes injury to the trees.

The various proprietary remedies or so-called "soluble oils" on the market have been thoroughly tested and favorably reported upon by several experiment station and prominent fruit growers. The cost of these preparations, however, makes their use almost prohibitive for commercial orchardists. These soluble oils are concentrated petroleum emulsions, made by a process known only to the manufacturers, and are the outcome of the strong demand for an efficient scale remedy that may be more conveniently prepared and less offensive to handle.

The Storrs Experiment Station, in the bulletin referred to, describes a method of preparing a "soluble oil," which after one year's observation, shows signs of becoming a very efficient and convenient remedy. Messrs. J. H. Hale, of South Glastonbury, and Barnes Brothers, of Yalesville, who tested it in an experimental way last year, report favorable results. The formula, which consists of two parts, follows:

1.—The Emulsifier.

Carbolic acid (crude liquid 100 per cent.)..... 2 quarts
Fish oil (pure Menhaden or whale oil)..... 2½ quarts
Caustic potash (granulated)..... 1 pound
Heat to 300 deg. F., remove from the fire and immediately add
Kerosene..... 3½ quarts
Water..... 5½ quarts

Very serious difficulty has been experienced in getting materials of the proper grade. This is especially true with regard to the local dealers who are not familiar with the requirements and who are likely to substitute "something just as good."

The emulsifier may be made up in any quantity and kept indefinitely. The cooking is best done in an iron kettle equipped with a cover and so arranged that it can be readily removed from the fire. The mixture being inflammable, it is unsafe to do the cooking near a building.

2.—The Complete Soluble Oil.

Emulsifier..... 8 parts
Crude petroleum..... 18 parts
Rosin oil..... 4 parts
Water..... 1 part

This part of the formula may be made up at any time without heat. The materials should be added separately and in the order named.

By securing the materials in large quantities the complete "soluble oil" may be made up for 16 to 18 cents per gallon. If diluted with 15 parts water, as is recommended, the spray mixture costs slightly over one cent per gallon. The lime-sulphur wash costs, including labor and fuel, at least one and one-half cents per gallon and the

commercial soluble oils cost, depending upon the amount of dilution, from two and one-half to three and one-half cents per gallon.

Directions for Use.

After a thorough stirring, take one part of the "soluble oil" to fifteen parts of water. Before mixing up large quantities, pour a few drops in a glass of water to see if it mixes. If it has been properly made the mixture will form a milky emulsion without any free oil on the surface. When satisfied that it will readily mix or "emulsify" a convenient way is to pour three gallons of the soluble oil into a fifty-gallon spray barrel and fill the barrel with water.

Thoroughness of application is of utmost importance. Badly infested orchards should receive two applications, one in the fall and the other in the early spring. As a regular practice, however, one application, just after the leaves drop in the fall, should keep the insect in check.

Where the leaf curl is prevalent in peach orchards the oil spray in the fall may be supplemented by a spring application of lime and sulphur. A finer nozzle should be used for the oil than for the lime-sulphur wash. In this way more thorough and more economical work may be done. Because of its greater spreading action and of its adaptability to a finer nozzle, one gallon of oil emulsion will go as far as one and one-half gallons of the lime-sulphur wash.

Complete information is given in the bulletin regarding the source and cost of materials, the preparation of the "soluble oil," the necessary precautions and the time and method of application.

The bulletin will be sent free upon request by addressing the Storrs Experiment Station, Storrs, Connecticut.

GREENHOUSES BUILDING OR CONTEMPLATED.

Youngstown, O.—H. Heck, one house.
Omaha, Neb.—Lewis Zardine, one house.
Lincoln, Mass.—Chas. Lunt, one house.
Horseheads, N. Y.—R. S. Treat, one house.
Gorham, Me.—N. Hannaford, 50 ft. addition.
Bristol, Tenn.—Simpson Floral Co., one house.
Simsbury, Conn.—Miss M. Bullock, one house.
Topsfield, Mass.—Thomas E. Proctor, one house.
Seattle, Wash.—Woodland Park Floral & Seed Co., range of houses.

NEW HEATING APPARATUS.

Fillow Flower Co., Westport, Conn., boilers.
M. Cook's Sons, New Orleans, La., Hitchings boiler.
R. W. Patterson, Montgomery, Ala., Kroeschell boiler.
Peter Fisher, Ellis, Mass., Morehead return steam traps.
Charles Serveau, San Francisco, Cal., No. 3 Morehead return steam trap.

VERMONT AGRICULTURAL EXPERIMENT STATION.

The present status of San Jose scale infestation in Vermont is somewhat better than that of a year ago, as reported at the Society meeting. The writer visited the orchard of Mr. Emerson of Thompson's Point, early last summer and made a somewhat careful inspection of the infested trees. At that time there were less young scales than during the preceding season and it was thought that a large number of them had been killed during the past winter. In conversation with Mr. Emerson the writer was informed that he had already made arrangements with a professional sprayer from Boston to spray all the infested trees thoroughly, in the fall, after the leaves had fallen.

A few weeks ago, not having heard in the mean time that anything had been done by Mr. Emerson, except very indirectly, the orchard was again visited and it was found that all of the old trees had been cut down and burned up. There were, however, some thirty or forty young trees, some of which had been planted last spring, still remaining in the orchard. An examination of all remaining trees revealed the fact that only three or four out of the whole lot were actually free from scale, showing that, even though clean trees were planted in the spring, practically all of them were more or less infested during the first season. This furnished additional evidence of the rapid spread of scale throughout an orchard, when a few trees in the orchard are infested.

At the present time these trees, according to information given by the superintendent, have been thoroughly sprayed with one of the standard, soluble oils and it is the intention to give them another spraying next spring, before the buds begin to swell. If this work is thoroughly done and a spring application is made it is believed that practically all old scale will be eradicated from the young trees. There are some half dozen trees, however, on which it is quite likely a few scales will escape being hit by the spraying materials and it would seem advisable that a careful watch be kept on these suspected trees during the coming season. If young scale make their appearance, the writer would advise that all infested trees be at once destroyed.

Careful examination of adjacent orchards and scattering roadside trees have not revealed the presence of scale in a single instance.

WM. STUART, Sec'y.

A meeting in the interests of the Los Angeles Flower Show (Cal.) was held on Dec. 30 at Chas. Winsel's store. Secretary Hand was instructed to send out notices to exhibitors of Pasadena, Hollywood and Santa Barbara and the millionaire residents of Southern California with a view to making this the most extensive show of the kind ever given. A date, from April 5 to 11, was tentatively agreed upon.

WILSON'S PLANT OIL

If you want to make money there is only one way. That is to have clean stock and the only way to get it is by using WILSON'S PLANT OIL.

Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
Yours very truly,
GEO. A. SKENE.

Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
Florham Farms, Madison, N. J., December 8, 1906.
Yours truly,
A. HERRINGTON.

PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

ANDREW WILSON, Dept. 8,

SUMMIT, N. J.

Selling Agents for New England, R. & J. FARQUHAR & CO., 6 and 7 South Market St., Boston, Mass.

LIST OF PATENTS.

Issued November 26, 1907.

- 871,770. Grain Drill. Albert Armitage, Fairport, and William P. Thistlewaite, Macedon, N. Y., assignors to Ontario Drill Co., Despatch, N. Y.
- 871,845. Manure Spreader. Dalton K. Wilson, Waterloo, Iowa, assignor to The William Galloway Co., Waterloo, Iowa.
- 871,846. Riding Attachment for Harrows, Dalton K. Wilson, Waterloo, Iowa, assignor to The William Galloway Co., Waterloo, Iowa.
- 871,867. Manure Spreader. William Galloway, Waterloo, Iowa, assignor to William Galloway Co., Waterloo, Iowa.
- 871,941. Planter. John D. Lancaster, Lorena, Texas.
- 871,976. Grading Machine. Guy S. Whitney, Lindsay, Cal.
- 872,000. Manure Spreader. Edgar C. Litchfield and Dudley Garst, Waterloo, Iowa, assignors to The Litchfield Manufacturing Co., Waterloo, Iowa.
- 872,066. Combination Tool. Fred W. Jackson, Heartwell, Nebr.
- 872,240. Draft Equalizer. August Lange, Scribner, Nebr.
- 872,316. Agricultural Implement. Lewis A. Aspinwall, Jackson, Mich., assignor to Aspinwall Mfg. Co., Jackson, Mich., a Corporation of Michigan.

"SCALECIDE"

is the standard soluble oil spray for SAN JOSE SCALE and all soft-bodied sucking insects. There is nothing better than the best. The best is none too good if you want to save your trees.

WRITE FOR BOOKLET W AND FREE SAMPLE

B. G. PRATT COMPANY, Mfg. Chemists 11 B'way, N. Y. City



HEATING THE GREENHOUSE

thoroughly and economically during the coming Winter is the problem now engrossing the mind of the Florist who takes time by the forelock.

I am in a position to help you to the best solution of this problem, I have done it for others, I can do it for you.

It will be to your advantage to consult me and get quotations on your heating plant either erected complete or for material ready for erection.

I have the largest line of C. I. and steel greenhouse boilers on the market and can give prompt shipments.

WRITE ME TO-DAY.

John A. Payne

Horticultural Architect and Builder

Main Office and Factory:

260-274 Culver Ave., Jersey City, N.J.

Sash opening apparatus and all kinds of greenhouse structural material.



In ordering goods please add, "I saw it in HORTICULTURE."

KRICK'S "PERFECT" FLOWER POT HANDLE AND HANGER ..

The Perfect Flower Pot Handle and Hanger is used for lifting plants out of Jardinieres, also for hanging up plants for Decorations on Walls etc., and will sustain a weight of 100 lbs.

No. 1 will fit from 2 to 5-in. pots, per dozen.....30c
No. 2 will fit from 5 to 8 inch pots, per dozen.....40c
No. 3 will fit from 8 to 12 inch pots, per dozen.....50c

By Mail 10 cents extra per dozen.



Sample pair 10 cents, post paid

W. C. KRICK

1164-66 Green Avenue, Brooklyn, N.Y.



The Best Bug Killer and Bloom Saver

For PROOF

Write to

P. R. Palethorpe Co. OWENSBORO, KY.

CARMAN'S ANTIPEST

For the Garden, Orchard and Greenhouse.

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests, and keeps down filth. Circulars on application \$1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO., FLUSHING, N. Y.

Eastern Agents:

W. W. RAWSON & CO., 5 Union St. Boston, Mass.



Cattle Manure In Bags Shredded or Pulverized

Best and safest manure for florists and greenhouse use, absolutely pure, no waste, no danger. Write for circulars and prices.

The Pulverized Manure Co., 31 Union Stock Yards, Chicago

Holds Glass Firmly

See the Point

PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DEER, 714 Chestnut St., Phila., Pa.

FULL SIZE No. 2



NIKOTEEN APHIS PUNK
THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM
NIKOTEEN
LIQUID
FOR SPRAYING OR VAPORIZING
NICOTINE MFG. CO. ST. LOUIS, MO.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

THE FOLEY MANUFACTURING CO.

Very Heartily Greet a Host of Friends

**A MERRY CHRISTMAS
A HAPPY NEW YEAR**

1907 PROSPERITY AND PLENTY 1908

NEXT YEAR WILL BE THE TIME TO BUILD

regardless of the unsuccessful attempt recently made to shake the confidence of the Nation in the midst of a bountiful harvest and widespread prosperity

AND BUY YOUR GREENHOUSE MATERIALS FROM

THE FOLEY MANUFACTURING CO.

From whose large new factory equipped with all modern machinery and conveniences, and an immense stock of selected, seasoned lumber they will promptly supply your every need. Let their draughtsmen make complete plans from your sketches and directions

Get their estimates before placing your order. Save money on!

BUILDINGS FOR FLORISTS, GARDENERS AND CONSERVATORIES

Remember the FOLEY VENTILATING APPARATUS is unexcelled. It secures perfect ventilation at all times and at least trouble and cost. Send for descriptive circular and price of machine for your needs.

CATALOGUE FOR 1908 IN PREPARATION. WRITE FOR ONE

THE FOLEY MFG. CO., WESTERN AV. BET. 25TH AND 26TH STS., CHICAGO



STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 3 1/4 " " 5.25	60 8 " " 3.00
1500 3 1/2 " " 6.00	
1000 3 " " 5.00	HAND MADE
800 3 1/2 " " 5.80	48 9 in. pots in crate \$3.60
500 4 " " 4.50	48 10 " " 4.80
320 5 " " 4.50	24 11 " " 3.60
240 6 " " 4.51	24 12 " " 4.80
144 6 " " 3.16	12 14 " " 4.80
	6 16 " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N.Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

W. H. ERNEST,

26th and M Street WASHINGTON D. C.

ANCHOR GREENHOUSE HOSE WEARS WELL.

PLANT BED CLOTH

Protects from Cold and Dampness.

MINERALIZED RUBBER CO.

18 CLIFF STREET,

NEW YORK

CYPRESS SASH BARS 82 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

N. TONAWANDA, N.Y.

TORONTO, ONT.



The FLORISTS' HALL ASSOCIATION OF AMERICA, insurer of 28,000,000 sq. ft. of glass. For particulars address **John G. Esler, Sec'y, Saddle River, N.J.**

PATENTS

Trademarks and Copyrights

Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

In ordering goods please add, "I saw it in HORTICULTURE."

S. JACOBS & SONS

Manufacturers of GULF CYPRESS

GREENHOUSE MATERIAL

Jobbers of

Glass, Boilers, Pipes, Etc.
Catalogue and Prices Upon Request.

**1365-1379 Flushing Ave.
BROOKLYN, - NEW YORK**

H AND C



AN IRON FRAME STATEMENT

The erection of all-cypress houses demands endless cutting and fitting on the grounds, which means both a great loss in materials and time. Our Iron Frame House is accurately cut, all holes drilled and every part prepared for instant erection, at the factory before a thing is shipped. It means to you simply the work of assembling the parts, bolting them up and putting in the screws. When you compare costs of the wooden house with our Iron Frame House, bear in mind that the Iron Frame costs less to erect, less to keep in repair, and gives you greater returns in quantity and quality of flowers than the best cypress house made. It is a construction that pays for itself many times over. Write us.

HITCHINGS AND CO.
GREENHOUSE DESIGNERS AND BUILDERS.
 Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.

**GREENHOUSE
GLASS**

Cheaper Now Than For Years

We are taking contracts for
next Spring delivery.

WRITE FOR OUR PRICES

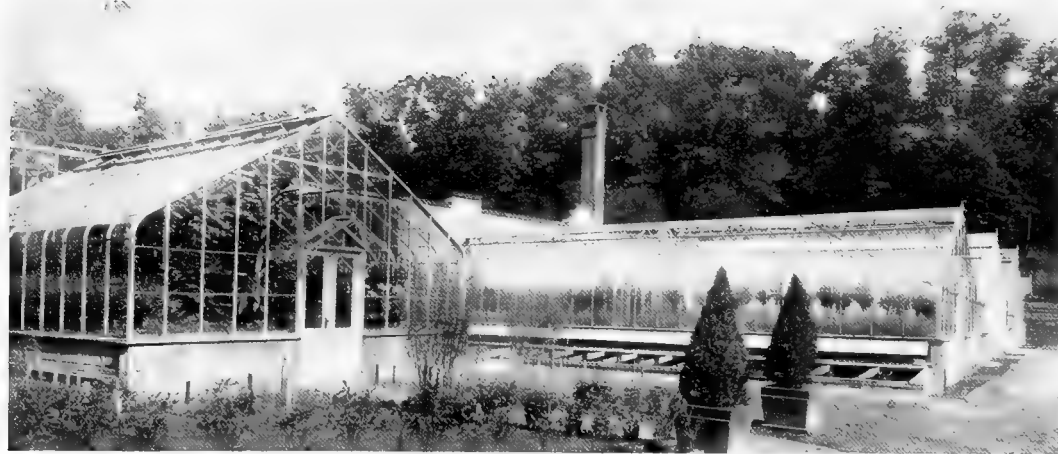
**STANDARD PLATE GLASS
COMPANY**

26-30 Sudbury St. 61-63 Portland St.
BOSTON, MASS.

I. CASSIDY
Designer and Builder
 OF
Iron and Wood Greenhouses.
 Office and factory, 215 to 221 Randolph Ave.
JERSEY CITY, N. J.

**GREENHOUSE CONSTRUCTION
LUMBER**

John C. Moninger Co.
 117 E. Blackhawk St., CHICAGO



THIS IS NOT THAT HOUSE.

Here is something for you to think over. Last fall we put our bid in, with several other greenhouse builders, for a rather extensive range, involving thousands of dollars. The superintendent wanted U-Bar houses, but his employer was skeptical. We told him frankly, not to base his decision in their favor, on any arguments we may have brought forth, but to write to several U-Bar owners and get their points of view. He took a list of twenty-five names and wrote to every identical man of them. All but three answered. Every one wrote enthusiastically. The whole trend of those twenty-two answers was, that the U-Bar is *the* construction. We got the contract. A few days ago he wrote for a figure on an addition. Send for catalog or send for us. **Pierson U-Bar Company**, Designers and Builders *U-Bar Greenhouses*, Metropolitan Building, 4th Avenue and 23rd Street, New York.



Agricultural College Greenhouses at Durham, N. H.

The Sectional Iron Frame with Boarded sides and Foot Piece Foundation. Note the straight roofed palm house in the center

Greenhouse Construction

AMONG THE

Experiment Stations and Agricultural Colleges

Now that the purely theoretical phase is a thing of the past, and the public is appreciating the tremendous importance of the work being done by the various colleges and stations, the pressure for more greenhouses to meet the demand for carrying on and expanding of this work, is everywhere being felt.

Years ago, we furnished materials for a number of the Amherst houses, and the students did the erecting. But of recent years, the majority of our houses among the various colleges all over the country, have been the Sectional Iron Frame Construction, which because of its lightness and freedom from repairs is every way practical.

The same construction can be used with either masonry walls, capped by iron sills, or with the Cast Iron Foot Piece foundation having board or shingled sides. The foot piece foundation as we make it, is just as warm as the masonry wall, and enough cheaper to allow the erection of more houses for the same money.

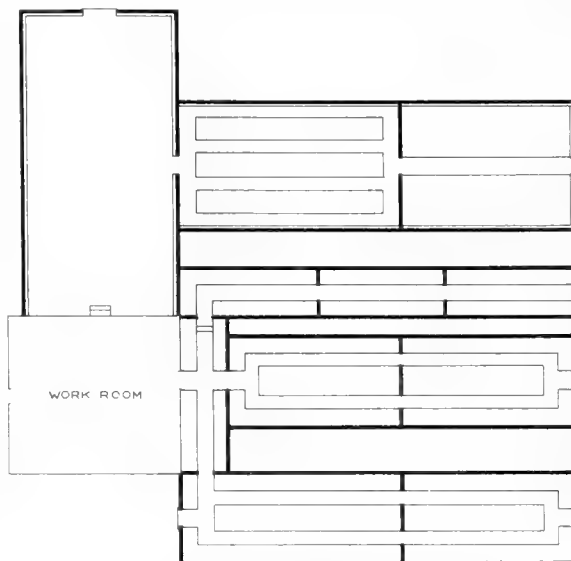
Our Sectional Iron Frame Greenhouse is the ideal construction. It is so scientifically worked out, that the labor of preparing materials and erecting is reduced to a minimum. It is not a house that needs to be cut and fitted by hand, on the job, but the entire frame is passed through a line of machines in our factory, where it is cut, shaped, punched, fitted and primed, ready for immediate erection.

When the materials are delivered to you, the erection of the frame is merely a matter of bolting up the iron parts and fastening the screws.

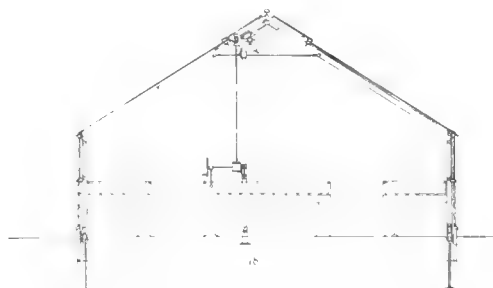
The expense of erecting is thus greatly reduced, practically equalizing the advance in cost of the Iron Frame House over the wooden structure. Send for our literature. **Lord & Burnham Co.,** New York Offices, 1133 Broadway, corner 26th St. Boston Branch, 819 Tremont Bldg. Philadelphia Branch, 1215 Filbert Street.

We make every part of a greenhouse but the glass.

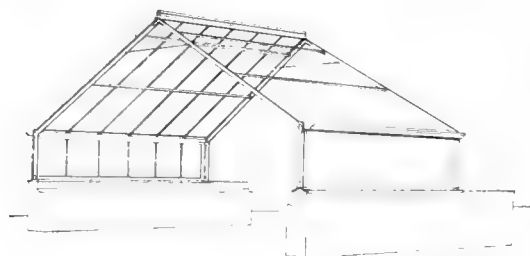
We sell any part.



Plan of the Connecticut Agricultural Station Greenhouses at Storrs. These sectional iron frame houses we are erecting on masonry foundations



Section showing the method of using our foot piece foundation and ice clearing eave plate



A single section of our iron frame construction placed on masonry walls. The light iron frame only shows on this side, while on the opposite, all the wood used is in place. The houses are a series of these sections united.

HORTICULTURE

Vol VI.

DECEMBER 21, 1907

No. 25



JOHN COOK'S H. T. SELDLING 294.

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and
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SCOTTII. Fine plants, 6 in. pots, 50c. each.

BOSTONIENSIS (The Boston Fern). 6 in. pots, 50c each; 8 in., \$1.50 each.

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\$4.00 per 100, \$30.00 per 1,000.

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CHRYSANTHEMUMS IN THE LONDON PARKS

For many years past there has been provided in those London parks under the authority of the County Council a gratuitous display of chrysanthemums. The Royal Parks do not have anything of the kind, and the only chrysanthemums seen there are such as are growing in the open in the beds and borders; but in the other parks greenhouses are specially set apart for the autumn exhibitions, and as they open to the public about the middle of October and do not close till the middle of the month following, the responsible authorities have always to keep in reserve plants which can take the place of those that have finished to bloom, and hence the display is kept up as brightly as possible for the time.

This year I started my round of visits to the parks by commencing with Waterloo Park, the most northern one in the metropolis. This lies at the top of Highgate Hill, past the famous Whittington stone, and is one of the most charming little parks in London, while all the others are on the flat. Waterloo affords natural features so varied in form, slopes, hollows, and well-wooded hilly background, as to offer to the head gardener in charge a capital opportunity of turning them to the best account. I, however, cannot deal with the general features of the parks, but must strictly limit my notes to the chrysanthemum displays. At Waterloo, the collection is staged in a composite house, the visitor entering first a span roofed portion which leads to a lean-to combination partitioned into three divisions. The plants, as at all the parks, are grown in pots, arranged in two banks, with a middle path for the visitors, who enter at one end and leave at the other. This display consists chiefly of big blooms, grown in exhibition style, with a certain regard being paid to decorative effect in the edging and intermingling of purely decorative varieties, the Japanese varieties predominating. We leave Waterloo to work our way south, and on the road call in at Twisbury Park, a fine open space of large extent. There are always two shows here, the arrangement not differing from that of the past few years—a sloping, undulating bank with a serpentine front edged with Singles and freely flowered Decoratives. At the back of the group, tall growing plants of decorative sorts are freely flowering and trained up under the roof to form a floral background, and the only cause of complaint we have is that, notwithstanding the immense number of new introductions and the great resemblance there is between many of the flowers the labels are very few and far between, and that visitors who are not experts have therefore little means of knowing the names of the varieties before them.

At the conservatory there is always a most delightful and artistic display. Huge palms, ferns and foliage plants of every varying form and size are here arranged in the greatest taste, and at intervals we see nicely flowered plants of the various sections of chrysanthemums that are of peculiar deco-

orative value. This year we see several most attractive groups set up in illustrative examples of the different sections. For instance, immediately on entering to the right we notice a fine bank of Singles flowering in great profusion. Then a little further there is an object lesson in Anemones of great educational value to the visitor, either expert or tyro. A few steps further and we observe the old florists' type of Incurved. Among the Japanese we recognize many old friends. As we leave, another bank of Decorative Singles is on our right and on our left. Victoria Park is next reached. Long before we come to the span-roofed greenhouse in which the collection is staged, we pass long borders filled with early flowering Pompons and other varieties that are now approaching their end. Not far from the entrance to the house are some large beds filled with single-stemmed well-grown plants of *Soleil d'Octobre*, each carrying from seven to ten huge blooms on a plant. This is a very effective display, and the variety is well named.

General decorative effect is here studied to a large extent, the ends and sides of this large greenhouse being covered with freely flowered bushes spread out to their fullest extent and forming a dense covering of foliage and blooms of medium size. The main collection, divided into two sloping banks with a path in the middle, is edged in the front with a continuous succession of bush plants of *Lady-smith*; and here, if we may offer a criticism, the effect is a little overdone. The edging a foot to a foot and a half in width of the peculiar mauvish pink that is distinctive of *Lady-smith*, practically kills the color of the whole collection when viewed from either end. It would, we think, have been better if the front row edging had been alternated with breaks in the color. This collection is always diverse and representative, *Incurves*, *Anemones* and the Japanese being included in good numbers. Among the Japanese some noble blooms stand out here and there like floral monuments to the skill of the cultivator, a veteran in the art, of many years' experience.

Brockwell Park lies far away, and is postponed for another day. The collection here is staged in a rather small house—in fact, the smallest in all the parks. The visitor passes through the old English garden, a quaint old-world garden that has been already described in these columns. As we pass on our way we notice besides *Lobelia cardinalis*, *gladioli*, dahlias, and many other occupants which are still flowering in spite of the weather, a charming bed of *Salvia splendens* in front of a background of white *Pompon dahlia* *Geo. Brinkman*. The old fountain with its collection of aquatics, iris, megasea, etc., is playing, and from the central path around it eight gravel paths radiate in all directions. These are linked together by a series of arches, covered with *Cobea scandens*, gourds and various climbers, and lead to odd corners in the garden, where there are arbors and rustic seats for the visitor to rest on.

The outdoor chrysanthemums in this secluded spot, which is surrounded by

an ancient red brick wall, a veritable *rus in urbe*, are still bravely keeping up their beauty, and are flowering freely in spite of the weather. The little span-roofed house contains a neat collection arranged in much the same manner as that at Victoria.

It is always a source of satisfaction to visit Battersea Park. The collection is staged in a large span-roofed house in the frame ground near the Albert Bridge. Artistic effect is the great feature of this display, and it deservedly ranks as the best thing of its kind. If as a visitor we had only time to visit one show in London, then we should unhesitatingly select Battersea. To describe the arrangement is not easy in a few words, but in the attempt we may say that there are two sloping and undulating banks of blooms, the right hand one rather wider than the left, with a serpentine winding path between. Floral decorative effect is practised with great skill and judgment; the ends, sides and part of the roof are simply clothed with chrysanthemums of freely flowered kinds. The collection is an extensive one, all sections receiving due recognition according to their value. Our notes are so ample that it is impossible to elaborate them here and describe one-tenth of the grand varieties we saw. All the members of the big brigade are grown and the varieties chiefly noted for brilliance of color are interspersed with a judicious hand. Is there anything to equal *Gloire du Rocher* or *Lord Alverstone* for color? For size, *Florence Molyneux*, the monster white, heads the list.

Time presses, and we must away. From the southwest corner of the metropolis to the southeast is a journey of some importance, the means of transport being less rapid. Southwark Park, situated near the river at a busy part near docks, warehouses, timber yards and the like, contains a large and densely packed population. The collection of chrysanthemums is therefore highly appreciated by residents in this locality, who belong chiefly to the working classes. This year our visit was earlier than usual, and considering the disadvantageous circumstances under which the collection is grown we were agreeably surprised to find what a large number of finely developed, well-colored blooms there were on view. Several poor women of the humble class with their children were enjoying this gratuitous floral feast, and we noted with pleasure their expressions of surprise and delight. In one corner there is a group of entirely yellow varieties together, and the effect is rather striking. On the other side is a large group of various pink sorts. The rest of the plants are arranged around the sides of the house, which is T shaped and in a central bed, so that visitors pass in at the door, go all around the house and leave by the same way. The middle bed contains the cream of the collection for quality and size, there being some grand blooms of the leading varieties. Here again, besides large numbers of Japanese, many excellent varieties of *Incurves* and *Anemones* are included. C. HARMAN PAYNE.

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continually going on. One wily Maine lumberman is quoted as saying that the Christmas tree business is "doing more to devastate our forests than all the pulp mills combined," and wants the legislature to take action! People need not be disturbed by these appeals. Forest trees are valueless for Christmas tree purposes. The symmetrical, stocky little specimens which are required for this use are found not in the thick growth, but scattered individually over the pasture lands on the hillsides. Trees of this character are not used for lumber and they would not be allowed to grow on pasture land were it not for the equivalent they return for the space occupied, in their sale for the holiday trade. Chief Forester Pinchot is out with a public reply to the deluge of appeals which he has received urging that something be done to prevent the "needless destruction of the nation's forests," in which he assures the people that all the Christmas trees used in one year could be grown on a 1400-acre farm, an amount utterly insignificant when compared to the destruction caused by forest fires and wasteful lumbering. Anyone who has ever visited the lumbering regions needs no assurance on this point

Mr. Hill and his critics

Our New York contemporary takes itself very seriously in its strenuous struggle to impugn the former secretary of the S. A. F. for accepting from a well-informed and reputable firm registration of the name *Hydrangea arborescens alba grandiflora* for a new introduction. The editor of our esteemed contemporary rants about "plights" and other things which exist only in his distorted imagination and demands that this plant name as registered should be withdrawn by Mr. Hill. In our humble opinion Mr Hill will be in no hurry to act upon this advice so freely given, but will wait, at least, until some better evidence is produced to show that he is in error. The truth is that nothing has appeared thus far in the discussion to show that Mr. Hill's variety of *Hydrangea arborescens* has been compared with the specimens named by Torrey and Gray in 1840. This could be done next summer when the plants are in bloom and the question of identity, at least, settled properly. It may transpire that the Hill variety is a much better plant. Dr. Gray who, besides being a botanist, was also an ardent lover of floral beauty, could not have thought much of the variety or he would have carried it down in his later works. In half a century the variety might improve in nature or, by selection, better flowered forms might be obtained. The history of *Nephrolepis exaltata* in the past twenty years is a case in point.

Before the time for our next "Good Anticipation Morning" to our readers, Christmas with all its apprehensions, arduous responsibilities and distractions, will have passed into history. Varying views are expressed as to the influence upon the holiday trade of the recent monetary disturbance, many cautious people, like Bre'r Rabbit, being disposed

Alarmists are again to the front with the annual hue and cry about the awful destruction of spruce trees in Maine for Christmas purposes and the lumbermen and pulp mills are glad to join in the chorus and thus try to blind the people to the facts in regard to the real forest spoilation which is

to "lay low" and take no chances while others profess to expect a volume of business that shall be an eye-opener and sharp rebuke to all pessimists. We surely hope that the views of the latter will be overwhelmingly vindicated and that when it becomes our duty to report the results of the great holiday trade it shall be our privilege to record that the courage of the enterprising man who unhesitatingly advertised his holiday offers and the confidence of him who freely purchased the same will prove not to have been wasted. The report of the Secretary of Agriculture showing that our agricultural products for 1907 have reached the stupendous value of seven and a half billion dollars—six hundred and fifty million dollars in excess of last year's amount—should inspire us with the right kind of confidence. We commend to the doubters the following extract from James D. Law's poetic Thanksgiving epistle to Hon. James Wilson, Secretary of Agriculture:

"Eight thousand million dollars—whew!
From one year's toil accruing—
Our hats we must take off to you,
Here's surely something doing!
Compared to that our Soulless Trusts
As grasping as they're able
Get only but the crumbs and crusts
From Uncle Samuel's table

"No lasting harm may ever come
To our expanding nation
While rural Industry can hum
With such signification.
No danger of financial health
Our favor'd land forsaking
With such illimitable wealth
Before us for the taking.

"Our farmers now can live like kings
Without their fears and follies,
Enjoying all our finest things.
From telephones to trolleys,
With liberty unknown to most
Their lives are fat and sappy,
And when they get the Parcels Post
They'll be completely happy."

Vanda Varieties

Vandas were the pride of the pioneers of Orchidology, for they epitomized all that was typical in a fascinating class of plants. Today they are somewhat overshadowed; the public are more familiar with the graceful odontoglossums or gorgeous cattleyas but the man who grows orchids loves his vandas still. The ornamental character of their foliage is very striking; to see a house full of specimen plants mounted with fresh moss, noting the thick white aerial roots branching in all directions and drinking in the fragrance of the many-colored flowers, is surely to taste the cup of exotic intoxication. True epiphytes, they are chiefly natives of the East Indies and Malayan islands and with one or two exceptions require stove treatment. They also need more light than most orchids; indeed many successful growers do not use shading at all, but this point will need to be settled by one's location. *V. teres*, if it is to be well-flowered, must never be shaded and should have an end position to get the maximum of light.

There are now about fifty species with their varieties in cultivation and though all are beautiful, many are not of such a free-growing and flowering character as to make them popular outside a Botanic garden. The following are the best varieties. *Insignis* is exceedingly handsome and produces flowers in May or June on racemes of 5 to 7 flowers, sepals and petals light brown spotted with chocolate brown internally. *Suavis* is one of the finest for exhibition purposes, the flowers large and freely produced and deliciously fragrant, sepals and petals white outside, spotted and barred with blood purple within; it blooms at various seasons of the year and lasts a long time in perfection. *Tricolor* also makes a superb specimen for exhibition purposes; flowers white outside, sepals and petals pale yellow spotted with brownish red within. *Tricolor* has many varieties but *planilabris* is the finest; flowers are larger and brighter colored than the type and open at various seasons. *Sanderiana* was introduced from the Philippines in 1881 but is still somewhat rare; the flowers are the largest in the group, dorsal sepals and petals pink, slightly stained with buff yellow, lateral sepals pale nankeen outside, within greenish yellow, reticulated with dull crimson and opens in September or October. *Cerulea* is a somewhat "sticky" looking plant but this is compensated for by the large spikes of flowers of pale blue with lip deeper in color. It opens in the fall. It should be hung up close to the glass where it may have a current of pure air in the intermediate house. *Kimballiana* is a curious terete form which does well in the cool end of the cattleya house and is adapted for basket culture, giving a long rest in winter. The flowers are white with deep purple lip and open in October or November.

Vandas delight in a moist temperature and when grown in pots should be stood on pots inverted into large pans. The stove varieties should have a temperature of not less than 70 deg. by day and 60 at night in winter. A leggy specimen may be cut down and sunk deep into pots with nothing but crocks and charcoal round it, and a deep surface of good sphagnum; keep shaded and syringed until new roots appear.

Edgar Elvire

A New Rose

(See Frontispiece.)

Our frontispiece this week is a portrait of another new rose, a seedling raised by John Cook of Baltimore. It is a hybrid tea, the result of recrossing three generations of Mr. Cook's seedlings. The color is a soft salmon pink which lightens up beautifully as the bud opens. The flowers are large and very strongly perfumed and the growth is sturdy and Mr. Cook states that plants set in June have produced from fifteen to twenty blooms each, to date. It has not yet been named but is known as No. 294.

NEWS OF THE CLUBS AND SOCIETIES.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The meeting on Tuesday evening, December 17, was well attended, there being about one hundred members present. After routine business had been attended to attention was directed to the various floral exhibits, of which there was a fine array, including two sterling novelties. The first of these was a plant in bloom of a hybrid lily, *L. Philippinense* X. *L. longiflorum*, raised and exhibited by R. & J. Farquhar & Co. This plant, which bore one flower, was from seed sown February 17, 1907, and is the first to bloom of a set of one hundred and fifty, showed characteristics intermediate between the two parents. The stem was stouter than that of *Philippinense* but less clumsy than *longiflorum* and the foliage was considerably wider than the narrow leaves of the former, widest at the middle and narrow at the base. The flower is of excellent form and substance. An award of merit was bestowed. The other novelty was a vase of bloms of a new rose—No. 294—from John Cook of Baltimore. As a portrait of this beautiful rose adorns our cover page and is described elsewhere in this issue we only need to add that it attracted much attention and was given an award of merit. Other conspicuous exhibits were a vase of very fine eucharis blooms from W. N. Craig and of Princess of Wales violets from I. F. Wood, both of which received awards of merit for superior cultivation, four vases of carnations from S. J. Goddard, one of which named *Ceres* was honored with an award of merit, roses from Fber Holmes, sweet peas from Wm. Sim, *Begonia Vesuve* from T. H. Westwood, *mignonette* from E. A. Wood, and carnations from another exhibitor, all of which received votes of thanks.

The topic assigned for the evening was "Innocents Abroad," a number of members to whom this designation might properly apply having been invited to entertain the club with brief accounts of recent visits to other sections of the country. W. J. Stewart was the first speaker, and his theme was the trip to Norfolk, Va., and the Jamestown Exposition, which Mr. J. K. M. L. Farquhar and he had taken last October. Mr. Stewart recited some of the incidents of the trip in a humorous vein, and spoke enthusiastically of the crepe myrtles, magnolias, umbrella tree and figs which are among Norfolk's horticultural attractions. A rising vote of thanks and unstinted applause was the speaker's reward.

Robert Cameron and W. N. Craig having visited New York and vicinity together during the chrysanthemum show, they were next called upon. Mr. Cameron told of his enjoyment of the orchid houses under the care of A. Herrington at Madison, N. J., and the successful transplanting of a large number of pin oaks to which his attention had been called. The natural scenery of Bronx Park had charmed him, and the chrysanthemum show was remarkable for the number of excep-

tional flowers displayed. He and Mr. Craig had traversed the Great White Way on election night, and "they could a tale unfold."

Mr. Craig followed and told entertainingly of what he had observed in the gardens and greenhouses of Madison, the orchids at Lager & Hurrell's in Summit and the greenhouses at Bronx Park. He spoke unfavorably in the main of the conditions as he found them in the latter. The conservatories were grand but defective in their heating. He said that the vase of chrysanthemum Miss Montigny exhibited at New York, by Thomas Proctor of Lenox, Mass., was the best vase of chrysanthemums he had ever seen.

The amendment to the by-laws providing for free nominations of officers from the floor, one month before the annual election, was adopted unanimously. A resolution of congratulation to Mr. and Mrs. J. T. Butterworth on their 25th wedding anniversary was adopted. A vote of sympathy with the family of W. W. Edgar was passed. D. Lumisden, who has removed to New Hampshire, was granted a demit from membership with thanks for his good services to the club. It was voted that the meeting in January be Ladies' Night.

Field Day at Framingham.

The members of the Gardeners' and Florists' Club of Boston, to the number of about one hundred, on Saturday, December 14th, enjoyed an excursion to Framingham, as guests of S. J. Goddard, J. T. Butterworth and Wm. Nicholson & Son. A big special trolley car was provided by Mr. Goddard, and although a heavy snow storm raged all the afternoon, all were comfortable and supremely happy. Mr. Butterworth's was the first place visited and the many houses of orchids grown commercially for Boston trade were a surprise to many of the visitors. A somewhat unusual crop was a house of young feverfews as a crop to follow chrysanthemums, the flowers to be used for Decoration Day work. Mr. Butterfield and Mr. Nicholson, who also grows a quantity, both stated that they found the feverfew a paying crop.

Mr. Goddard's establishment is devoted mainly to carnation growing. His pet variety, *Helen Goddard*, is not unknown to the frequenters of the carnation shows, where he is always well represented by flowers of high grade. At present *Ceres*, a beautiful rosy pink, is a centre of admiration. *White Fair Maid*, another novelty, is seen here, *White Perfection*, *Beacon* and a number of other popular varieties look very happy in Framingham soil. At Mr. Nicholson's *Afterglow* holds the entire of the stage, and it is superb as seen here, the stems being of extraordinary length. *Lady Bountiful*, *Snow-Drift*, *Harry Fenn* and *Victory* are among the money makers here. An appetizing collation was served at Mr. Nicholson's, after which appreciative remarks were made by President Westwood, Wm. J. Stewart, F. E. Palmer, Thomas J. Grey and the hosts of the occasion, Messrs. Nicholson, Goddard and Butterfield, responded amid much applause to the compliments showered upon them.

MORRIS CO. GARDENERS' AND FLORISTS' SOCIETY.

The annual election of officers for the ensuing year took place at the regular December meeting, with the following results: President, Percy Herbert; vice-president, Harold B. Vyse; treasurer, Wm. Duckham; secretary, Edw. Reagan, Morristown. Executive committee stands as follows: A. Harrington, Wm. F. Lyon, C. H. Totty, Alex. Brown, Joseph A. Manda, Wm. G. Badgley, David Falconer, A. R. Kennedy, Robt. M. Schultz, Thos. Stokes, Otto Koch, Ernest E. Wild.

The monthly exhibit while not large, was good in quality. Half a dozen very fine pans of *Begonia Lorraine* were shown by A. Herrington; *Stirling Castle* tomatoes in tempting dishes were here from Wm. F. Lyons, who also had Christmas Pink and Florence Denzer sweet peas. The judges for the evening gave each exhibit a cultural certificate.

The feature of the January meeting will be the installation of officers and the twelfth annual smoker, which we hope to make equal to any we ever had. The committee intrusted to prepare the viands and secure talent for the occasion consists of R. M. Schultz, A. Herrington, Wm. Duckham and C. H. Totty. They will be held strictly accountable for any short-coming.

E. R.

FLORISTS' CLUB OF WASHINGTON

Resolutions duly introduced and unanimously passed at the meeting of the Florists' club of Washington, held on the evening of December 6th, 1907.

Whereas, News has been received of the sudden death in Chicago, on December the third, of P. J. Hauswirth, secretary of the Society of American Florists and Ornamental Horticulturists;

And Whereas, Mr. Hauswirth was known throughout the length and breadth of the country as an enthusiastic fellow-florist and admirer of things beautiful; devoted to the best interests of the Society of which he was Secretary; willing and anxious at all times to be of any possible service to his own or kindred organizations; a man beloved by all who knew him;

And Whereas, We, the Florists' Club of Washington, D. C., recall with pleasure the various occasions upon which our deceased friend was with us, and the keen interest manifested in all matters pertaining to our welfare;

Be It Resolved, That these resolutions be spread upon the minutes of this meeting as an expression of the great shock with which the announcement of his death comes to us; as an evidence of the deep and heart-felt sympathy of the officers and members of this Club for the family in the great bereavement which has come to their home; and be it

Further Resolved, That the Secretary of this Club be directed to transmit a copy of these resolutions to Mrs. Hauswirth and the members of the family, and at the same time convey to them the sincere hope of the officers and members of this Club, that The Divine Ruler of The Universe may be their comfort and support in this time of their sorrow; and be it

Further Resolved, That copies be sent The Chicago Florists' Club, of which he was so long an active and efficient worker, and also The Society of American Florists and Ornamental Horticulturists, of which he was Secretary at the time of his death.

(Signed), Z. D. Blackistone, vice-president; Chas. McCauley, secretary; Wm. F. Gude, Jas. J. Harty, Jas. L. Carberry, committee.

NEWPORT HORTICULTURAL SOCIETY.

The election of officers of the Newport Horticultural Society took place Tuesday evening, December 10. President Butterton occupied the chair. Usually members turn out in large numbers to the annual meeting but the storm of that afternoon and evening prevented the attendance of many who otherwise would have been there.

The secretaries and treasurer presented their annual reports which showed that the Society is in every way in a healthy condition. The increase in membership was considerable.

On the table were several lots of carnations from the greenhouses of H. A. Jahn, New Bedford. A. S. Meikle, Bruce Butterton and James J. Sullivan were appointed a committee of examination and upon their recommendation a silver medal was awarded carnation Lloyd and a certificate of merit an unnamed white seedling. Carnation Lloyd will be distributed by Mr. Jahn in the spring. A refreshment committee previously appointed attended to their work after the regular business, which included the election of officers. But one change was made in the regular board, and that was in the financial secretary, but there are many changes in the executive committee. Following is the list:

President, John T. Allen; vice-presidents, Samuel Speers, James Robertson; Rec. secretary, David McIntosh; Fin. secretary, Daniel J. Coughlin; treasurer, A. K. McMahon; sergeant-at-arms, Wm. F. Smith. Auditors: W. S. Sisson, Bruce Butterton, B. M. Anthony. Executive committee: Andrew S. Meikle, Bruce Butterton, J. J. Sullivan, W. G. Matson, Alex. Fraser, Robert Patterson, B. M. Anthony, C. Oscar Schultz, W. F. Smith.

D. McINTOSH, Sec'y.

MINNESOTA HORTICULTURAL SOCIETY.

In our issue of last week we gave a very interesting account of the meeting of this useful society, from the pens of two correspondents. From Mr. LeRoy Cady we have received additional notes from which we extract the following:

Tuesday afternoon, the session was in charge of the Minnesota Rose Society, of which Mrs. H. B. Tillotson is president. Papers were presented dealing with Ornamental Horticulture. Rev. C. S. Harrison of York, Nebraska, told of the propagation and culture of some common perennials. Mrs. D. W. C. Ruff discussed the culture of foxgloves, hollyhocks, larkspurs, iris and some other biennials and perennials. Charles Nordine discussed rose culture very ably. Supt. Wirth of the Minneapolis Parks told about border planting. He advocated more thought and planning in planting of all kinds. A \$10,000 home should have some care taken in the planting about it so as not to mar the natural aspects and also to have all harmonious. Borders should form a pleasant background and be attractive to the neighbor as well as owners. Plants are cheap, and make a better screen than cement or brick. A number of other papers of interest to ornamental horticulturists were given, among them one by John

Monson, a florist, giving some of his experience in crossing roses. He has succeeded in bringing out some very promising large single roses.

The announcement was made that the National Paeony Society would probably meet in Minnesota in 1909. A list of perennials recommended for planting, to go with the list of ornamental shrubs already in use, was presented. Buckthorn and alpine currant were recommended as the best hedges to grow where pruning was practised.

LENOX HORTICULTURAL SOCIETY.

The annual meeting of this society was held Saturday, Dec. 7. President Heeremans occupied the chair and there was a large attendance. The following officers were elected for the ensuing year: W. Jack, president; R. Speirs, vice-president; Thomas Page, treasurer; G. Instone, secretary; E. Marsh, assistant secretary. The reports of the officers showed the society to be in a flourish-



W. JACK

President-elect Lenox Horticultural Society.

ing condition with a membership of nearly two hundred. President Heeremans, before leaving the chair, in a few well chosen words thanked the members for their support during his term of office. At the next meeting, on Dec. 21, there will be an entertainment.

G. INSTONE, Secretary.

AMERICAN CARNATION SOCIETY. Carnations Registered.

White Helen Gould by Simon J. Hider, Hillsboro, Ohio. Sport of Helen Gould, white, center petals slightly pencilled with pink gradually turning to white as matured; calyx stronger than Helen Gould; size 3 1-2 to 4 inches across; stem strong, 20 to 25 inches long; habit of growth same as Helen Gould. Registration made subject to the approval of the Carnation Society at its meeting in Washington, D. C., Jan. 28th. to 30th, inclusive.

ALBERT M. HERR.

Lancaster, Pa.

IOWA HORTICULTURE FLOURISHING.

One of the most successful meetings of the Iowa Horticultural Society was recently held in Des Moines. In spite of the light apple crop the quality and condition of the fruit were far superior to that of last season. The large attendance and the unusual enthusiasm shown by the members were notable features of the occasion.

The most interesting portion of the show was the collection of seedling apples exhibited by C. G. Patten of Charles City, Iowa. This collection of over one hundred varieties of new fruits won the Wilder medal at the Jamestown Exposition. Some of these apples have been found very profitable to grow in the colder sections of the state. The majority of the collection were of good color and quality, but have not been cultivated extensively, enough to determine their value commercially. Mr. Patten is a pioneer breeder of hardy fruits. Among the first of his production is the Patten's Greening apple, which has proven a great boon to the grower of the upper Mississippi valley.

The reports from the central station located at Ames under the direction of Prof. S. A. Beach were also encouraging. At this station there are over 17,000 seedling apple trees that have not yet come into fruiting. These are the products obtained from the cross pollination work that has been carried on with the leading standard varieties. Hardiness, productiveness and good keeping qualities are the features that the breeders are seeking for.

The unusually large damages from the insect pests has placed a greater importance than ever on the necessity for spraying. Large orchardists report that sprayed fruit sold at \$1.00 per bu. when it was difficult to dispose of the untreated product at 40c. per bu. The damages in sprayed orchards by the codling moth amounted to less than ten per cent., while the crop in many unsprayed orchards was entirely ruined.

The discussions of park and forestry questions were also interesting. "Ornamental Shrubs for Home Grounds," "The Destruction of Our Forests," and "Civic Improvements" are representative of the various subjects discussed. As the State grows older the artistic side of horticulture is bound to receive greater attention. W. G. BAXTER.

TWIN CITIES FLORISTS' AND GARDENERS' CLUB, MINN.

The Twin Cities Florists' and Gardeners' Club was organized December 12. According to the by-laws, the club will meet the third Tuesday of each month, alternately, at the Minneapolis Park Greenhouses, 38th street and Bryant avenue S, and at Holm & Olsen's, 20 W. 5th street, St. Paul. About forty professional horticulturists are members so far. Officers are as follows: President, T. Wirth; vice-president, O. J. Olsen; secretary, S. D. Dysinger; treasurer, R. A. Latham; executive committee, T. H. Hall, E. Nagel, G. P. Holm, A. S. Swanson.

ST. LOUIS FLORIST CLUB.

The St. Louis Florist Club held its regular monthly meeting on last Thursday in the Burlington Building. The attendance was by far the largest of the year, every seat in the room being taken, which goes to show that the new officers are doing good work in entertaining the members and the stay-at-homes missed another grand treat. President Young was much enthused when he took the chair to open the meeting, on facing the large attendance. There was quite a sprinkling of visitors, among them several young students from Shaw's Garden. Fred. Ammann presented resolutions on the death of P. J. Hauswirth, secretary of the S. A. F., which were adopted and spread on the minutes and a copy was ordered sent to the family and to each of the trade papers. The trustees were ordered to prepare an entertainment for the members and their families and to report at the next meeting, the entertainment to take place early in February.

Mr. S. L. Bray was introduced for a talk on flower pots. In the course of his talk he said he would like co-operation of the members in starting a large pottery in this city and form a stock company. A committee was appointed to look into the matter and report at the next meeting. The committee consists of C. C. Sanders, W. E. Guy, A. J. Bentzen, Emil Schray and J. F. Ammann.

The next on the program was a lecture on the Royal Gardens of Kew with stereopticon views, by G. H. Poing who has charge of the orchid houses at Shaw's Garden. This proved one of the most interesting features ever enjoyed by the club and Mr. Poing was congratulated at the close. Walter Mott, representing A. T. Bodding, New York, was in attendance. The first meeting in the new year will take place January 9th.

GARDENERS' SOCIETY OF GREENWICH.

The Gardeners' Society of Greenwich, Conn., whose membership includes about twenty-five gardeners, is formed to promote interest in horticulture and to invite more direct attention to the important and ennobling work involved. Silas Frost is president and Thomas Young of Belle Haven is secretary. Not alone is the influence of the society expected to improve the results from the work of its members, but methods are to be adopted that will, it is hoped, create an enlarged interest among residents generally, and a special program is already outlined for school children. Grades are to be formed and each of the children is to be given a plant to take home and cultivate, taking entire care of it until next September, when there will be a careful examination and inquiry into the work of each child and the condition of the plant in its charge. In each of the grades there will be three prizes.

The society's aim will be to cause the gardener and nurseryman to work more in unison and enlarge upon the community-of-interest idea along most worthy lines. It is reasonable to anticipate that the organization will be-

come a fixture which all will endeavor to maintain, and it goes without saying that Greenwich will reap advantages from what it accomplishes.

T. YOUNG, Sec'y.

KENTUCKY SOCIETY OF FLORISTS.

At the recent meeting of the K. S. of F. officers were elected as follows: President, H. Kleinstark; vice-president, H. Fuchs; secretary, F. L. Schulz; treasurer, J. Wettle. F. L. Schulz, J. Wettle, P. A. Reynolds, Jacob Schulz, and J. E. Marret were appointed a committee to arrange for a big chrysanthemum show next year.

J. K. ALLEN

Treasurer-elect, New York Florists' Club.

J. K. Allen was born in Wippany, Morris Co., N. J., received his educational training in Morristown schools, and subsequently was engaged with Jos. Towell at Paterson, N. J. for several years. In 1882 he embarked



J. K. ALLEN

in the florist business at Garfield, Passaic, N. J. During the past twenty years he has been engaged in the wholesale commission flower business in New York, where he has built up a large trade by his energy and ability and integrity.

Mr. Allen has also taken an active interest in public affairs in the town of Kearny, where he resides. He has served on the board of Education and is at the present time a member of the Free Carnegie Library commission. For seven years he served in the Kearny fire department holding responsible positions at various times in that organization. He has always been highly esteemed by all who know him and it is well to say the finances of the New York Florist Club will be well cared for.

Milwaukee Florist Club on December 5 elected officers as follows: F. H. Holton, president; Chas. Menger, vice-president; M. P. Vallier, secretary; J. E. Pollworth, treasurer.

CLUB AND SOCIETY NOTES.

At the recent meeting of the Virginia Horticultural Society the Emerson cup for the best fruit exhibit was won by Dr. S. S. Guerrant of Franklin.

The Montgomery County Horticultural Society held its annual meeting in Dayton, O., on December 4. The officers were re-elected for the coming year, F. W. Ritter, president; D. Berger, secretary.

Officers for the Menlo Park Horticultural Society, California, for the coming year are: President, Sidney Clack; vice-president, M. W. Carter; secretary, F. G. Hutchinson; treasurer, George Munn.

The Southwestern Iowa Horticultural Society opened their annual meeting on December 2, at Council Bluffs. Reports presented show that the fruit industry ranks near the head of agricultural interests in this section and is increasing each year.

The Horticultural Society of Northern Illinois met at Polo on December 3 and 4. An unusually fine display of fruits and vegetables was made. Among the valuable papers presented was one by O. C. Simonds of Chicago, on landscape gardening.

The Michigan Horticultural Society held its annual meeting in Battle Creek during the week of December 1. The fruit exhibit was magnificent. A fine display was made by the State Agricultural School and the experiment station at South Haven.

The new officers of the Nassau County Horticultural Society, Glen Cove, N. Y., are: A. Jaenecke, president; S. J. Trepeas, vice-president; W. S. Rennie, secretary; H. Matz, treasurer; V. Kurz, corresponding secretary. During the winter months meetings will be held in the afternoon.

The third annual conference under the auspices of the committee on children's gardens of the Massachusetts Horticultural Society was held on December 14 at Horticultural Hall, Boston. Henry Saxton Adams, the chairman, stated in his address that thirty-two localities have taken up school and home gardening and the interest is increasing. Principal Boyden of the State Normal School at Bridgewater stated that in four normal schools in the middle west there are natural science gardens. Mr. Adams awarded eight prizes and four specials for school gardens, one for school grounds, and six for home gardens.

BUSINESS CHANGES.

The nurseries of the Realty Syndicate Co., Oakland, Calif., have been leased by J. A. Furtado.

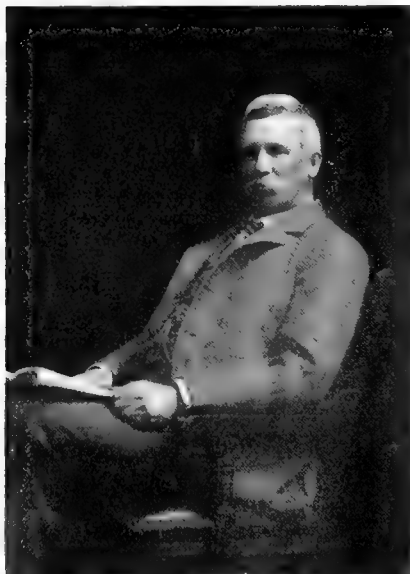
Joseph Menny of Fresno, California, has purchased the Macomber estate at Chicopee, Mass., and will engage in market gardening.

William White has purchased the business of Robert Miller at E. Brookfield, Mass. It is reported that Mr. Miller will locate near Salt Lake City, Utah, and take up the business of rose growing on a large scale.

Obituary

William W. Edgar.

The news of the death of W. W. Edgar on Dec. 18, although not unexpected, will carry a pang of great sadness and a sense of irreparable loss to a host of friends far and near, who have come to regard him as one of the best and noblest friends, a shining light in horticulture, a mainstay in every fraternal movement within the circle of his activities. He possessed a warm and affectionate heart and was never happier than when he had gathered around him, as he frequently did, at his greenhouses and in his cozy home in Waverley, a merry party of his florist and gardener friends. Whenever an entertainment or gathering of the fraternity was planned, a hearty supporter and faithful helper was always found in Mr. Edgar. He will be missed and mourned. His example should serve as an inspiration to those



WILLIAM W. EDGAR.

that follow him. His industry, sagacity and untiring energy are worthy of emulation by every young man in the profession who aims to make his career a success and to merit the respect and love of his fellows. "He was a man, take him for all in all."

William W. Edgar was born in Neston, Cheshire, England, April 28, 1843. He commenced early in the gardening line and worked on several large estates in England and coming to this country in 1867 he was employed on the Pratt estate, now Oakley Country Club of Watertown, Mass., also as head gardener for seven years to Gov. Claflin at Newtonville, Mass. Afterwards he was employed by S. J. Powers at South Framingham, and then came to Waverley and started business in 1885. He was the first commercial grower to import the Lorraine Begonia in 1898 and has won wide repute for the high quality of this and other decorative material, especially Easter stock, as grown by him. Mr. Edgar was a life member of the S. A. F., member of the American Rose

Society, Gardeners' and Florists' Club of Boston and a number of fraternal organizations. He is survived by a wife and children, his daughter Grace being the wife of J. McHutchison of New York.

William H. S. Wood.

William H. S. Wood of New York city, died at his home, 14 East 56th street, on December 11, aged 67 years. Mr. Wood was a life member of the New York Horticultural Society and the American Pomological Society and an incorporator and member of the New York Botanical Society. He was the founder of the publishing house of Wm. Wood & Co., and has been president of the Bowery Savings Bank since 1903.

Samuel H. Walker.

Samuel H. Walker of Taunton, Mass., died suddenly on December 3. Mr. Walker was for many years a successful florist in Taunton, having built the Weir street greenhouses which are now occupied by Willard & Williams. He was 69 years of age and leaves a daughter.

Mrs. C. W. Pike.

Mrs. C. W. Pike, for the past fifteen years in the retail florist business in Racine, Wis., died at her home on December 7. Mrs. Pike was at one time a member of the Society of American Florists and was highly esteemed by all who knew her.

Robert Faulk.

Robert Faulk, for many years a member of the firm of R. Faulk & Son, Pittsburg, Pa., died on December 15 at the age of 59. A widow, three sons and two daughters survive him.

Alexander Hukill.

Alexander Hukill, a retired nurseryman of Wilkinsburg, Pa., died on December 5 at the age of 69.

CROPS OF UNPRECEDENTED VALUE.

The Eleventh Annual Report of the Secretary of Agriculture opens with the statement that the farm production for 1907 is well up to the average in quantity, while its value is much above that of any preceding year. The farmer will this year have more money to spend and more to invest than he ever had before out of his year's work.

The report calls attention to the wonderful wealth-producing power of alfalfa. It not only yields several cuttings of most nutritious hay during a season, but actually enriches the ground on which it grows by taking nitrogen from the air. The Department and the State experiment stations have done much to promote the extension of alfalfa growing. While production is yet confined mainly to the Great West, this forage plant is yearly gaining a more substantial foothold in the Central and Southern States. The total crop of alfalfa hay in 1907 is estimated to be worth \$100,000,000.

The seven cereal crops produced 4,135,000,000 bushels, showing a loss of 214,000,000 bushels, or 5 per cent. below the five-year average, the loss being chiefly due to oats. The total value is \$2,378,000,000; this exceeds 1906 by \$296,000,000 and is 23 per cent. above the average.

WINTER PROTECTION OF BOX.

December 6, 1907.

Editor of HORTICULTURE.

Dear Sir:—I should like to beg the use of a little space in your valuable paper for an inquiry about the care of Box. Here at "The Orchard" we have 5298 feet of Box Hedge, and 116 clumps and standards, many of which are very handsome specimens. The prevailing idea here seems to be that it is necessary to shovel the snow off the hedge after every snow storm. The snow is apt to freeze and form ice, and they claim this destroys the Box. We are very careful to tie up all Box to prevent the snow from breaking it. In my estimation, this is all that is necessary.

This is a very serious question for us, and where better to go to have it answered than to HORTICULTURE?

Yours very truly,

H. W. CLARK.

Southampton, L. I., N. Y.

On the question of shovelling snow off the box hedges at every snow storm, I should think it unnecessary if the hedges are well tied up so that the snow cannot break them down. If ice forms so as to break down the hedge it had better be removed. In very heavy snow storms it is always well to go over and shake the trees so that the heavy snow will not break the branches. We have no large hedges of box in this part of Massachusetts, therefore have no need of these precautions, but in choice collections of evergreen, which might amount to the same idea, we do not shovel off the snow except where there is a possibility of the snow breaking them down. We look at a heavy fall of snow more as a protection than otherwise. If the hedge were thought of any great account I should protect it by a slight covering of pine bush stuck firmly in the ground and tied at the tops. The ice forms more on Long Island than it does here. I should leave the plants as they are and not shake the snow off except, as I say, in extreme cases, as there is no better protection than the snow. Of course, in ice storms, such as we sometimes have, it would be well to go over them and shake off the ice. JACKSON DAWSON.

MARKET GARDENING COURSE.

In the Winter courses in agriculture at Pennsylvania State College, horticulture has a prominent place, but the importance of instruction in market gardening and greenhouse management has led the college to make special provision for it, as the demand for vegetables and small fruits is increasing.

Ralph L. Watts, a graduate of State College and one of the most successful market gardeners of Pennsylvania, has been secured to assist Prof. Butz in the Winter course. He is a scientist who has made a big commercial success and is a popular instructor at the institutes of New Jersey, Maryland and Pennsylvania. He will present his methods to the students who take the horticultural course at State College. These Winter courses begin December 3, continuing twelve weeks and the enrollment of students promises to be large.—Philadelphia Press.

REMARKS ON ROSES

Before the Chicago Florists' Club,
by E. G. Hill.

Your secretary did not state what particular phase of the rose question I was expected to discuss, whether the raising of new varieties, the general culture of roses, or to discuss somewhat the coming exhibition of the National Rose Society which will shortly occur in your city. Hence my apology for the present somewhat discursive effort.

"Anything new in roses?" is a question propounded much more frequently now than a few years ago, especially by the rose growers of our country, and the same question is asked with even more interest in Europe.

The rose growers charge the retail store men with being more largely responsible than themselves for the seeming indifference towards new varieties, and in this there is undoubtedly a considerable degree of truth, and it must be confessed a large number of florists—growers—hold the same view. In the light shed on the matter of novelty by the milliner, the silk manufacturer, the dry goods man, and in fact by all the vendors of apparel, ornament and furniture, it is a wonder that we of the florist profession should have been the reactionaries in the matter of novelty in roses, but we still have to admit that such has been our past record. It was a leading society lady in an Eastern city who gave utterance to the protest against being compelled to use Bride, Maid or Beauty for her frequent functions; this was only too true and the lady in question simply voiced the general complaint concerning the world's pre-eminent flower, the rose. A change has taken place and new varieties are given a very different reception from that accorded a few years ago. It is well for the rose that such is the case, else the carnation would have continued its triumphal march to the point of disputing leadership with the rose.

Believing that a radical change has taken place and that novelty in roses is being sought, the question arises—will we be able to meet reasonable expectations and can we provide new varieties so as to meet this greater interest; the answer is in the affirmative and it is a pleasure to record that a considerable number of workers are endeavoring by hybridization and cross fertilization to give to the rose loving public new forms and types.

So many qualities have to be present in a variety that lays claim to favor as a forcing variety that the progress made will seem slow, but nevertheless it is within the range of possibility to gain entirely new and unique colors and forms.

I believe with Robert Simpson, the present President of the Rose Society, that the forcing roses of the future will come largely from an admixture of Rose Indica with the present Hybrid Perpetual; in fact, do not the Hybrid Teas bear witness to this prophecy? Still, the strong old Bourbon varieties, like Gloire des Rosomanes, should be made to furnish their rich scarlet tones to the newer sorts. Our task is to breed into the Tea varieties the strength, vigor, length of stem, and the finer dark shades found among the



HOUSE OF CROTONS.—Robert Craig Company.

Hybrid Perpetuals, using the Tea section in order to secure freedom in flowering; the varieties of the future will not be the result of a single cross between the two sections named, but will be the result of patient interbreeding extending through a series of years. I would not say that here and there a desirable new variety may not make its appearance as a result of a haphazard cross, but to get at definite results careful note must be made of the qualities present in the progeny and then seek to breed those missing qualities into future seedlings.

We must not forget that Rosa Indica is the one class that is to furnish the foundation for all our forcing varieties and this is on account of its continuity of bloom. No matter how fine a rose or what the length or tint of petal, unless it has the inherent power to produce buds and flowers freely it will prove practically valueless. We have every reason to hope that we may yet possess the ideal from the careful crossing of the H. P. and the Tea. We have Richmond, Chatenay, Liberty, Killarney, all undoubtedly from this source, hence it is within reason to hope for others in this particular line.

The new varieties appearing will perhaps require more careful or at least different cultural treatment from that given our present forcing varieties. The new sorts will require study; perhaps some will thrive best grafted on certain stocks, or will do best in certain soils; a case in point is the variety Killarney. It was Ben Dorrance who discovered the peculiarities of this variety and who brought it into its present prominence, so it would be well to give the new varieties a careful trial before putting them aside. My conviction is that we have much to learn in regard to right cultural conditions. I am inclined to think that perhaps other valuable varieties have been lost sight of by their not having had proper cultural treatment. We know that to grow American Beauty successfully requires the application of

good cultural skill and very often this variety fails to give best results in the hands of the most skilful growers. Great progress has been made in improved methods of culture and you have some notable examples in this line in your own vicinity. I mention the cultural side of the question in order to show how important it is in order that new introductions may not be condemned too hastily.

Some fairly successful rose men inveigh against Killarney and Richmond because they cannot do them successfully, and it is only the fine showing made by a majority of our best growers that has given them the position they deserve; each new rose must be studied and results carefully noted, before its cultural requirements can be known; it is infinitely easier to master the peculiarities of two or three sorts, drop down into a rut with them and run along comfortably, than to experiment, and fail, and try again; experimental work is seldom comfortable work, but buyers demand novelty and variety, and there is nothing for it but for us to take off our coats and get down to hard work.

INCORPORATED.

Lakeview Rose Gardens, Jamestown, Va.; A. N. Broadhead, N. A. Broadhead, W. A. Bradshaw; capital, \$50,000.

VISITORS IN NEW YORK.

Phil. Breitmeyer and son Harry of Detroit, Mich.

We have just received from Arthur I. Vescelius, floral artist, Paterson, N. J., a most beautiful calendar for 1908, consisting of reproductions in color of four flower paintings by the celebrated flower artist, Paul de Longpre, viz., lilacs and violets, American Beauty roses, daisies and golden rod, and poinsettias. These pictures will be given a place in any home, even the most exclusive, and will no doubt prove a potent advertisement for Mr. Vescelius.

FOR CHRISTMAS

Gardenias, very choice stock. \$60.00 per 100.

Valley, none better grown. Special \$6.00 and \$5.00 per 100.
1st Quality \$4.00; Medium \$3.00 per 100.

Richmonds and Liberties

Extras \$20.00 per 100.

Firsts 15 00 " "

Seconds 10.00 " "

SPECIAL BARGAIN FOR CHRISTMAS

Roses in lots of 200 or over, assorted varieties, our selection, \$6.00 per 100.
No. 2 grade

Send for Christmas Price List of everything seasonable in Flowers, Plants and Sundries.

S. S. PENNOCK-MEEHAN COMPANY "THE" Wholesale Florists of
1608-1620 Ludlow Street - - - - - PHILADELPHIA

PUBLICATIONS RECEIVED.

Bulletin of the New York Botanical Gardens, Vol. 4, No. 14. An enumeration of the plants collected in Bolivia by Miguel Bang, with descriptions of new genera and species.

Thirty-second Annual Report of the Board of Commissioners of the Boston Park Department. A 36-page pamphlet containing the Superintendent's report, exhibit of appropriations, expenditures and various statistics for the year 1906, with several full-page illustrations.

Successful Corn Culture. By Prof. P. G. Holden, of Iowa State College. Published in pamphlet form, 84 pages, by Successful Farming Publishing Company, Des Moines, Ia. This valuable addition to the practical literature provided for the farmer is compiled from contributions which have appeared from time to time in Successful Farming. Every question concerning our greatest product and its culture and harvesting is covered in this useful little book.

The first issue of The Pacific Garden, the new horticultural magazine of Pasadena, Cal., has come to hand. It is "devoted to the interests of professional and amateur gardeners and horticulturists and outdoor life," and will be published monthly. We extend the right hand of fellowship to our youngest contemporary. Its home field is peculiarly rich in horticultural promise and our best wishes are that it may cover the field well and that it may have a long and prosperous career.

The Garden and Farm Almanac. 1908. By Doubleday, Page & Co., New York.—The introduction states that the aim of the publishers has been to make an almanac really worth something. They have succeeded admirably. The Garden and Farm Almanac is certainly a book to which its owner will instinctively turn for information and for reference. Its list of contents reads like a synopsis of a

horticultural cyclopaedia. It answers a host of questions for the farmer. The price is 25 cents and it is well worth the money.

DECISION OF U. S. GENERAL APPRAISERS.

No. 17574.—Broccoli Seed—Cauliflower Seed.—Protest 255784 of Portland Seed Company against the assessment of duty by the collector of customs at the port of Portland, Oreg. Before Board 3, December 3, 1907.

The importers objected to the classification of broccoli seed under paragraph 254, tariff act of 1897, as seeds not specially provided for, contending that it was free of duty under paragraph 656, as cauliflower seed.

Waite, General Appraiser: * * * The case is submitted upon a sample of the seed inclosed in a small illustrated envelope similar to the usual package in which garden seeds are commonly sent out by dealers. The following printed description appears on the back of the envelope.

Broccoli.—* * * Taller and more hardy than cauliflower, but otherwise very similar to that delicious vegetable. Culture and use are identical with that of cauliflower.

It is very evident from the above description that these are not cauliflower seed. As broccoli are not specially provided for in the tariff act, we hold the collector's assessment to be correct, and overrule the protest.

"All in a Garden Fair," "In a Land of Flowers," "Nature's Jewels," and "Garden Glories," are the titles of four beautiful colored plates forming the calendar for 1908, which George E. Dickinson of 1 Broadway, New York, American agent for E. T. Dickinson, Nurseryman of Chatenay, France, is sending out to his customers. Reginald West is the artist and Raphael Tuck & Sons, Lt., are the publishers of this rich souvenir.

PLANT IMPORTS.

There were entered at the port of New York during the two weeks from December 4 to 17, inclusive, the following plants, etc.:

Via Antwerp: H. F. Darrow, 10 cs. bulbs; J. Dunn, 1 cs. plants; Peter Henderson & Co., 2 cs. bulbs; McHutchison & Co., 7 cs. plants; Maltus & Ware, 1 cs. bulbs; J. M. Thorburn & Co., 3 cs. do.; sundry forwarders, 19 cs. plants, 37 cs. shrubs, 4 cs. laurel trees.

Via Rotterdam: H. F. Darrow, 28 cs. plants; W. Elliott & Sons, 1 cs. do.; Peter Henderson & Co., 3 cs. do., 279 bales garden seed; McHutchison & Co., 29 cs. plants; P. Ouwerkerk, 25 cs. trees; August Rolker & Sons, 33 cs. plants; J. M. Thorburn & Co., 4 cs. plants, 14 bales seed; Vaughan's Seed Store, 19 cs. plants; Maltus & Ware, 204 cs. plants, 18 cs. trees, 22 cs. roots and bulbs, 22 bales garden seed; sundry forwarders, 22 cs. plants, 5 bales plants, 57 cs. shrubs and trees, 8 cs. bulbs.

From Germany: H. F. Darrow, 70 cs. lily of the valley pips, 13 bags seed; McHutchison & Co., 110 cs. lily of the valley pips; Chas. F. Meyer, 439 cs. do.; F. R. Pierson Co., 40 cs. do.; J. Roehrs Co., 38 cs. do.; J. M. Thorburn & Co., 4 cs. seed; Yokohama Nursery Co., 88 cs. lily of the valley pips; to order, 120 cs. do.; Maltus & Ware, 95 cs. do., 10 cs. lilacs; sundry forwarders, 831 cs. lily of the valley pips, 3 cs. plants.

Via Southampton: H. F. Darrow, 2 cs. plants, 81 bags seed; Elizabeth Nursery Co., 3 cs. plants; Hall & Carroll, 150 crates mistletoe; McHutchison & Co., 30 cs. plants; sundry forwarders, 56 cs. plants, 3 cs. trees, 138 crates mistletoe.

Via Liverpool: H. F. Darrow, 10 cs. plants; McHutchison & Co., 10 cs. plants; forwarders, 50 crates mistletoe, 1 cs. plants, 26 cs. trees.

Via London: J. M. Thorburn & Co., 49 pgs. garden seed; forwarders, 225 pgs. garden seed.

Seed Trade

For the benefit of those who expect to attend the canners' convention at Cincinnati, February next, it may be stated that no samples or exhibits of any kind will be permitted at the Hotel Sinton; the precedent that was established at Buffalo last year will be followed at the forthcoming convention. Ample space will be afforded all members of the Machinery and Supplies Association at Machinery Hall, where they can erect booths or do anything else that seems good to them.

Several times attention has been called to the reproach put upon the seedsmen by certain persons in the trade who are always present at these conventions but who persistently refuse to join the association and pay the price of membership. The only discoverable cause is penuriousness, and one would think a man's self respect and the good opinion of his competitors and prospective customers would be worth more than the cost of membership. However, some persons' self-respect seems to be a pretty cheap commodity, judging by the value they put upon it, and they would rather be camp followers than join the ranks. If the canners, who are the chief complainants, would refuse to deal at the convention with any one not a member of the association, the problem of how to get rid of such persons would be solved. Either they would be compelled to join the association or remain away.

The following is a list of the principal Cincinnati hotels and their prices: The Grand, European, \$1.50 per day and up; American plan, \$3.00 per day and up; St. Nicholas, Euro., \$2.00 per day and up; Burnett, Am. plan, \$3.00 per day and up; Hotel Sinton, Euro., \$2.00 per day and up; Gibson, Euro., \$1.50 per day and up; Palace, Am. plan, \$2.00 and \$2.50 per day; Haviland, Euro., \$1.50 per day and up; Hotel Emery, Euro., \$1.50 per day and up; Am. plan, \$3.00 per day and up; The Munro, Turkish baths and connection, Euro., \$1.00, \$1.50 and \$2.00 per day.

An interesting development of the past week was a quotation by a Western seed house, of Stowell's Evergreen and Country Gentleman seed corn at \$10.00 per bushel. While this price seems a little high just at present this quotation is a large-sized straw showing plainly the trend of prices, and the predictions made in these columns that corn would sell at \$10.00 a bushel seems within reasonable distance of realization. The writer knows where choice eastern grown seed has sold at \$7.00 within the past ten days.

Reports received during the past week indicate that the leading growers of peas and beans fully realize the scarcity of seed stocks of peas, particularly of canning varieties, and orders for future peas have been written at advances of from 50 to 75c. per bushel above last year's figures. Considering the value of seed stocks, low-yields which are the rule, and advances over last year's figures which must be paid the farmers, \$2.75 and

\$3.00 do not seem at all unreasonable on the standard canning sorts. Of course there will be some grumbling, and considering the fact that most of the canners charge the farmers not above \$2.50 per bushel for the seed, they can scarcely be blamed for not wishing to pocket a loss at the very outset. Many growers have been tempted by the unusually high prices to sell more or less of their seed stocks, and most of them admit these are short and very liable to be over-sold. With this handicap to start with, if the crop proves as short as last season, deliveries are likely to be even shorter of the 1908 crop. At any rate, it does not look "from the fence" as if there is much chance of any large surplus, however generous the crop may be. The seeds of the more fancy varieties of peas such as are grown by market gardeners and private trade are more abundant, and prices on these are not likely to show the same advance, excepting on Telephones, Duke of Albany, Alderman, Sutton's Excelsior, Dwarf Telephone, and Improved Stratagems, which are very much on the short side and generally are.

At the request of the Secretary of Agriculture the Treasury has directed that until July 1, 1908, two-ounce samples of all importations of one hundred pounds or more of grass, clover and forage plant seeds be prepared at the earliest practicable date after entry and forwarded to the Seed Laboratory, Department of Agriculture, labeled with names and addresses of consignors and consignees, name of seed and quantity of the consignment.

The following Japan news is just received, dated at Yokohama, November 28th:

"Longiflorum and multiflorum lily bulbs were left in some surplus this year. For the past few years there were always surpluses so far as the Japan market was concerned, and the prices were higher toward the end. Some of the largest growers consequently held back their bulbs expecting extraordinary prices later but this year they have not been sold and it has taught them a lesson. They have to carry over their bulbs now, which makes everyone afraid and others will not invest in seed bulbs, so that the crop next year will be short in these varieties should the demand be the same as heretofore. Furthermore a

great quantity of seed bulbs were damaged this year by floods and the weather and this will also tend to the expected shortage. Giganteums are not so weak but, owing to the fact that all growers wish to grow these bulbs, the price of seed bulbs is so high that prices must be advanced accordingly.

"Large size auratum were short this year and will also advance in price next season. They have been too low in the past and growers have not been able to realize a profit on them. The demand is very strong in Europe and they are used there in very large quantities for cold storage. Lilium album will be very short. Seed bulbs are very high priced and hard to get. We have to buy quantities of rubrum to get the necessary number of albums to fill our orders."

CATALOGUES RECEIVED.

California Carnation Company, Loomis, Cal.—Wholesale Price List for 1907.

Otto Katzenstein & Co., Atlanta, Ga. Specialties in American tree seeds and plants.

Roustan Servan & Cie., St. Remy de Provence, France.—Wholesale catalogue and price list of flower and vegetable seeds for 1907-1908.

K. Velthuys, Hillegom, Holland.—Wholesale Trade List of Dutch and French bulbs and tubers, lilies, etc. This is a very neat and attractive production, with a vignette of a field of tulips in colors inserted in the cover page.

R. Wiboltt, Nakskov, Denmark. Cata-



K. VELTHUYS, HILLEGOM, HOLLAND

HYACINTHS, TULIPS, NARCISSUS, LILY OF THE VALLEY and OTHER BULBS

Roman Hyacinths and the true Paper White Grandiflora

Ask for Our Wholesale Trade List at Hillegom

Also FELIX BASCH

260 Clarendon St., BOSTON, MASS.
Representative

logue of the agricultural pedigree seeds of the General Swedish Seed Company Ltd. The seeds sent out by this company are exclusively the product of the Swedish Society for the Improvement of Seed, a scientific institution which has from the Swedish Government an annual subsidy for the study of seed selection both in its scientific and its practical aspects. Persons interested in cereals and other farm crops will find much much to interest them in Mr. Wiboltt's pamphlet.

You'll find something worth reading on every page of this paper.

Cover your Cold Frames with HOT BED MATS

Made of burlaps, thickly quilted with jute making a serviceable warm mat. 76 x 76 inches, will cover two frames.

\$1.25 each. \$14.00 per doz.

WM. ELLIOTT & SONS

201 Fulton St., NEW YORK.

SEEDS — NEW STOCK

	Trade Pkt.	Per Oz.
Begonia Vernon	50c	\$2.00
Begonia Erfordia .....	.50	
Candytuft Empress .....		.15
Carnation Marguerite .....	.25	1.00
Centau ea Gymnocarpa .....	.10	.25
Cyclamen Giganteum in colors, per 1000 seeds		\$4.00
Lobelia Crystal Palace Comp. .....	.25	1.25
Nigronette New York Market .....	.50	5.00
Nyosotis Victoria .....	.10	.50
Salvia Splendens Grandiflora .....	.25	1.00
Salvia Splendens Bonfire .....	.50	2.50
Stock Boston Market in colors .....	.50	5.00
Verbena Mammoth mixed .....	.25	1.00
Vinca Rosea and Alba .....	.10	.40

W. E. MARSHALL & CO.

145 West 23rd Street, - - New York

WIBOLTT'S SNOWBALL CAULIFLOWER-SEED

No. 34
is the earliest of all Snowballs, the most compact, the surest header, giving the largest and snow-white heads, and is the best keeper in dry-weather. Demand it through your seed-firm or direct from

R. WIBOLTT, NAKSKOV, DENMARK



100 seeds \$1; 1000 seeds \$9.

H. E. FISKE SEED CO.

12 and 13 Faneuil Hall Square, - BOSTON, MASS.

Burpee's Seeds
PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

ESTABLISHED 1802

Thorburn's Bulbs

ROMAN HYACINTHS at reduced price to close out.

PER 1000 SEEDS
Asparagus plumosus nanus seeds \$2.25
Asparagus plumosus robustus seeds 2.50

BERMUDA EASTER LILIES

Bulbs of all kinds, native and foreign.
Send for our Trade Bulb List

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place
NEW YORK

Everything of the Highest Grade

"QUALITY IS REMEMBERED LONG
AFTER PRICE IS FORGOTTEN."

WHAT QUALITY MEANS.

Quality means the best and finest types procurable in their respective classes. We do to specialists for our flower seeds. Our customers, the Florist the private gardener demand the highest grade. We have no cheap catalogue trade. "Quality" may mean a little higher in price. "Quality" in fact means "Quality" and we know that when you buy from us you get it;—and our customers know it too. Catalogue now in press; 40 pages. Write for one its FREE. We sell bulbs too.

ARTHUR T. BODDINGTON
SEEDSMEN

342 West 14th St., - - NEW YORK.

BRASLAN SEED GROWERS CO.

GROWERS FOR THE

WHOLESALE TRADE ONLY

SAN JOSE, - - CALIFORNIA

CAULIFLOWERS CABBAGE

HJALMAR HARTMANN & CO.,

12 Stormgade,
COPENHAGEN, DENMARK.

Lily of the Valley

Finest Berlin \$12.00 per 1,000

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

37 East 19th St., - NEW YORK CITY

C. C. MORSE & CO.

Address all communications to our permanent address

48 to 56 Jackson St., San Francisco, Cal.

The Largest Seed Growers
in the United States

BAMBOO CANES

They cost about 10 per cent. more than other kinds, and they are 10 times better.

STUMPP & WALTER CO., - 50 Barclay St., New York

RELIABLE SEEDS SOW NOW

	Tr. Pkt.	6 Tr. Pkts.
Alyssum Carpet Queen, real dwarf for pots only, no equal....	\$0.25	\$1.25
Begonia Gracilis Luminosa, new	0.50	2.50
Erfordia, beautiful.....	0.50	2.50
Za gen's Bedding Queen	0.50	2.50
Lobelia, new Trailing Hamburgia	0.30	1.50
Petunia, Zangen's Extra Double		
Fringed Giants.....	1.00	5.00
Zangen's Superb Single		
Fringed Giants.....	0.75	4.00
Zangen's Ruffled Giants, the best.....	1.00	5.00
Phlox, best for pots, Fireball, Roseball, Snowball, each color.....	0.25	1.25
Salvia Fireball, new, a fine potter	0.50	2.50
Stocks, German 10 weeks: Blood-red, Lavender, Pink, Purple, White, each color.....	0.50	2.50
Verbena Mammoth: Pink, Purple, Scarlet, Striped, White, each color.....	0.25	1.25

My New Fall List Ready for the Asking

O. V. ZANGEN

Seedsman. HOBOKEN, N. J.

Best Quality Fall Bulbs

It is to your advantage to place your order early. Send us a list of your wants and we will quote you rock-bottom prices. Copy of our Florists' Bulb Catalogue will be sent upon request. Catalogues now ready.

VICK'S SUPERB PANSY SEED

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts

1-8 oz. 75c. 1-4 oz. \$1.50 Ounce \$5.00

JAMES VICK'S SONS, Rochester, N. Y.

CYCLAMEN

Farquhar's Giant Strain

Unsurpassed for size of flowers.

Giant Crimson Giant Pink
Giant White Finest Mixed
Giant Excelsior, White with
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100 seeds, \$1.25; 1000 seeds, \$10.00.

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High-Grade SCOTCH SOOT.

We have the Stott Double Nozzle
THOMAS J. GREY CO.

32 & 33 So. Market St., BOSTON

TOUGH AND STRONG

6 ft. long — \$1 per 100; \$6 per 1000; \$11 per 2000

PROPERTIES OF THE CHRYSANTHEMUM.

Under the above title George Glenny wrote concerning the chrysanthemum in the London Horticultural Magazine, sixty years ago, as quoted below. It will no doubt be interesting reading for many. It shows how even the wisest may be mistaken and how careful we all should be before committing our views to the printer. In the course of a long article Mr. Glenny writes as follows:

"We expect a sort of remonstrance against the properties which we shall set down as desirable in the chrysanthemum, because the forms of the present varieties are as numerous as were those of the dahlia when the published rules first set to rest the properties of that universal favorite. There were among them at that time anemone-flowered, China-aster-flowers, to say nothing of colors. In semi-double, flat, starry, and ragged flowers, to say nothing of colors, in the chrysanthemum, we are told in a very recent publication, that there are the ranunculus-flowered, the incurved, the China-aster-flowered, the marigold-flowered, the clustered and the tasselled, all of which, except the ranunculus-flowered, are untidy and flimsy. Great efforts have been made to bring these flowers into notice, and shows have been established at which the judges have not known by what rules to award the prizes, or which flower was the best. We affirm with great submission to those who pride themselves on this flower, that it is impossible to select one less fit to exhibit, cut from the plant, and that individually there is nothing to hope for in the bloom itself that should raise it to the dignity of a florist's flower; but as there is great merit in growing the plant well in pots only, and as the plant is showy when there is a scarcity of bloom in a house, they ought always to be shown in pots only, and the merits of the plant be taken into account quite as much as that of the bloom, and as such we shall notice both."

SEWICKLY (PA.) NOTES.

About twelve miles from Pittsburgh, down the Ohio river, is the borough of Sewickly, where, on the heights overlooking the little town, many of the wealthy Pittsburghers have their summer homes. The location is just beyond the smoke and fog region, and within easy reach of the city. Unlike many suburban settlements, the estates are all extensive. The natural beauty of the district makes this an ideal spot for a country home; the land is rolling and in some places very rugged, requiring only a little of the landscaper's art to make the scenery really picturesque. Many trees, particularly conifers, which will not grow in Pittsburgh, thrive here luxuriantly.

At Mr. Wm. Thaw's place, Supt. Hall has been busy planting, thinning and transplanting trees and shrubs of all kinds. On this place, the chief features are those immediately surrounding the house, where some fine shrubbery and Italian gardening may be seen. On the terrace are some fine catalpas. The approach, which is a long, continuous curve with a gentle grade, is bordered

almost the entire length by herbaceous borders, with a background of shrubs and deciduous trees, the border receding and approaching the driveway in an informal, pleasing manner. The herbaceous plants are very effectively arranged, and are chiefly indigenous plants. The house stands on the highest part of the estate, and is approached from many points by English stepping stones cunningly laid in the grass.

Situated right on the brow of a steep hill overlooking a thickly wooded ravine are the greenhouses of R. H. Boggs, under the care of N. Chris Madsen, whose ability as a grower of all kinds of greenhouse plants, as well as an estate manager, is evident. Mr. Madsen does not grow only the stereotyped stock for winter flowering. Many gardeners still retain the tendency to imitate inherited from their progenitors. In the flowering house are all kinds of plants in bloom, many half-hardy annuals which have been grown for the purpose and are certainly worth the trouble, Phlox Drummondii, salpiglossis and many other simple things are very effective when arranged amongst such things as Ruellia marcantha, celosias, Begonia Gloire de Lorraine, mignonette, browallia, etc. Although late in the season there were still a number of fine chrysanthemums. In the rose houses are some healthy-looking American Beauties, and the tea houses benches are bristling with buds. Enchantress, Robert Craig and Lawson are the standard carnations. Several whites are grown, but next year only White Enchantress will be retained. A few orchids are grown. Lelia Perrinii and Cattleya Dowiana are now in flower. J. H.

AN APPRECIATION OF HORTICULTURE.

Mr. W. J. Stewart :

Dear Sir,—Having reached another milestone, we deem it a great privilege to tender our congratulations. HORTICULTURE is certainly doing a good work in our midst. The spirit shown in your paper is worthy the emulation of more pretentious papers. It can be seen at a glance what you are striving to give your readers—the highest and best to be found in Floriculture, as well as in Horticulture and kindred interests. Thanking you for the great help you have been to our club, and wishing you a prosperous and successful year,

We remain, sincerely yours,

THOS. H. WESTWOOD.

President Gardeners' and Florists' Club of Boston.

DAHLIAS

A long list of desirable varieties at 3c each. Write for list.

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DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; prompt delivery.

DAVID HERBERT & SON,
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Select Stock of Strong Well Rooted Carnation Cuttings.

	Ready Now.	Per 100	Per 1000
Andrew Carnegie (Scarlet)			
Harlowarden	\$12.00	\$100 00	
Aristocrat, bright cerise.....	6.00	50 00	
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White Perfection, pure white. We have a large stock. \$3 per 100, \$25 per 1000.

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LA FAYETTE, IND.

Carnation Cuttings

Both standard varieties and novelties. Stock guaranteed to be first-class. Address,

S. S. SKIDELSKY

1741 North 18th Street, Philadelphia

CARNATIONS

White Enchantress R. C., this stock originated with and grown by me is the very best, \$6.00 per 100; \$50.00 per 1000. Enchantress, light pink, \$2.50 per 100; \$20.00 per 1000. Lawson, \$2.00 per 100; \$15.00 per 1000. Lord, light pink, \$2.00 per 100; \$15.00 per 1000. Queen, white, \$2.00 per 100; \$15.00 per 1000. The Belle, \$2.50 per 100; \$20.00 per 1000.

FRANK H. KIMBERLY,

631 Townsend Avenue. New Haven, Conn.

1908—TOREADOR—1908

Our new seedling Carnation. In color, a very much improved Prosperity, with the addition of strong stiff stems. The finest novelty for 1908. Awarded first-class certificate Toronto meeting of the American Carnation Society. Write us for further information. The H. Weber & Sons Co., Oakland, Md.

JOHN E. HAINES Bethlehem, Pa.

is the place to order rooted-cuttings of the following varieties for 1908.

John E. Haines, red	Per 100	Per 1000
Imperial variegated		
Pink Imperial, Pink	\$6.00	\$50.00
Enchantress, Light Pink		

Place your orders early for Dec. delivery.



Send for Sample

WHICH IS WISER to raise split Pinks which must be mended or those which need no mending? Perfect flowers guaranteed by the M. & D. Artificial Calyx. \$1.75 per 100; \$15.00 per 1000. 250 at 1000 rates

Maxfield & Dimond
Box 304-D WARREN, R. I.

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100,000 DAHLIAS

Premium Stock, guaranteed true to name. 500,000 large Flowering Gladioli, hundreds of colors and variations mixed. Wholesale prices on application. Order now for spring delivery. Catalogue free.

J. L. MOORE, Northboro, Mass.

GET WISE TO MY SIZE

There is no more attractive and salable plant when grown, trained in pots for **Easter** than the **CRIMSON RAMBLER ROSE**, and considering the simple treatment they require, **few plants make better returns.**

Most important of all, is to get **strong field grown plants**, that have been dug carefully, and the **roots kept moist.** We have **several thousand such plants**, grown in our Nurseries that have been put up in bundles of 25 each and graded as follows:

Plants with 4 to 8 and more canes, 7 feet long suitable for an 8 inch pot \$2.50 per 100. These should sell in flower from \$3 to \$5 each.

Plants with 3 to 4 canes, 4 to 7 feet long, suitable for a 7 inch pot \$1.50 per 100. These should sell in flower from \$2.50 to \$3 each.

Plants with 2 to 3 canes, 3 to 5 feet long, suitable for 6 inch pots \$1.25 per 100. These should sell in flower from \$1.50 to \$2 each.

We also have some smaller plants that would make nice plants in 5 1/2 to 6 inch pots, 2 to 4 canes 2 to 3 feet long at \$.50 per 100.

The latter size is useful for outdoor planting having very strong roots.

Each plant has been tied up separately in the field making them very convenient for potting.

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HARDY PERENNIALS OUR SPECIALTY. (Formerly conducted by Clucas & Boddington Co.)

CHRYSANTHEMUM STOCK PLANTS

10c. each, \$1.00 per doz., \$6.00 per 100

WHITE—Early: George S. Kalb, Polly Rose Willowbrook Early Snow, October Frost. Mid-Season: Miss Minnie Wanamaker, Ivory, Mrs. Robinson, Niveus, Queen, Miss Alice Byron, Eureka, Beatrice May, Merza, Late: Mrs. McArthur, Timothy Eaton, W. H. Chadwick Adella, Mrs. Swinburne.

PINK—Early: Glory of the Pacific, Rosier. Mid-Season: Adela, J. K. Shaw, Pink Ivory, William H. Duckham, Dr. Enguehard Morton P. Plant, The Harriott, Marie Liger, Lavender Queen. Late: Maud Dean, Mrs. James Marshall, Mayor Weaver, The Harriott.

YELLOW—Early: Monrovia. Mid-Season: Miss Georgiana Pitcher Col. D. Appleton, Mrs. George Beech. Late: Major Bonaffon, H. W. Riegan, Yellow Eaton, Old Gold, Golden Wedding.

RED—Cullingfordil, Matchless, Mrs. ham Red.

BRONZE—Miss Kate Broomhead, Mrs. William Duckham.

POMPONS—Baby (Yellow), Lulu (White).

NOVELTIES—20c. each, \$2.00 per doz., \$15.00 per 100. Mrs. Clay Frick, mid-season, White; Golden Dome, late, Yellow.

A. N. PIERSON, Cromwell, Conn.

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MADISON, N. J.

Chrysanthemum Novelties a Specialty

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Novelties from all over the world. Largest collection in America. Earliest delivery

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And other Rambler Roses.

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\$36.00 per dozen

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REALLY HARDY VARIETIES

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LARGE STOCK All Sizes

ROSES

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Berberis Thunbergii

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PRICES QUOTED IN THESE COLUMNS ARE FOR DEALERS ONLY

When Writing to Advertisers Please Mention Horticulture

THE RETAILER'S POSITION TOWARDS THE WHOLESALER.

A paper read before the Florists' Club of Philadelphia, by Chas. H. Grakelow.

The retailer of today is a much harassed man, as, with endeavoring to realize the constantly increasing opportunities of the business, trying to adjust the prospective customer to the ever-varying prices of grower and commission house, and a desire to hold and add to his most valuable asset, customer, his is an unenviable lot. Wholesaler of cut flowers, temper your prices with the knowledge of past sales and the possibilities of the future, and at the first sign of scarcity do not make advances so rapidly that the retailer stands mutely by, thinking it a Shakespearian drama and expecting to hear that world-famous quotation, "Lay on, Macduff, and damned be him that first cries, 'Hold, enough!'" A slight knowledge of the conditions of the market and the orders entered on the book which are paid for and waiting to be delivered educate the retailer to the advance, a duplication of last week's effect for the same amount or a slight increase, if any, is all the prospective customer can see. The Thursday before Easter Sunday last year a little girl asked your humble servant for \$.15 worth of cut flowers and "Mamma did not wish too many of one kind." Another instance: "Carnations are \$.35 per dozen; give me three and put them in a box; plenty of wax paper so they won't bruise, as I am taking them across the mountains." Will some wholesaler kindly advise the best method of handling the retail trade? Gentlemen, I know this is the extreme, and is simply quoted to give you a slight idea of the troubles a retailer encounters without advancing prices. Help us to educate them to a more generous use of flowers; do not discourage, as our business is in its infancy and abnormal profits today will not meet all the obligations of the future. Now, then, when the occasional short notice, non-important order (except for the knowledge of the value of the customer in the past and the prospects of future business) comes along, should not the wholesaler pleasantly share our misfortune as well as our prosperity? While no doubt unreasonable demands are made upon you, fixed rule in this case is not practical; the wise man measures his cloth to fit the customer. The amount saved by the wholesalers by a united stand for thirty days' credit only would more than meet the carfare charges and assist the legitimate florist by effectually removing the "take-the-order-at-any-price" retailer. The small occasional payments on a constantly increasing account enables him to take an order at almost any price and still figure on a 100 per cent. profit. That which he does not pay for can be sold at any price and with a handsome profit. Laxity in credit invites men of no stability to embark in any business, making unequalled competition for the paying man and a sad experience when the inevitable failure takes place for the wholesaler. Give the small fellow the same attention as the big fellow as our baby of today is our man of the future. Keep in close touch with your consignors, impress on them the necessity of shipping when requested, the stock desired, so that the poor re-

tailer does not have to substitute and thereby lose a good customer. When stock is scarce and out-of-town orders strong, before filling orders on file ask yourself, "Where were the shipping orders when the summer glut was on?" Then fill according to your judgment, realizing that the high dollar policy is not always the most profitable in the end. Whether the fakir is the god-send to the business which the wholesaler would have us believe is a question in my mind. That he instills in the heart of the public a desire for flowers is true, but would not more good be derived by the business in the future by allowing the storekeeper to purchase at the same price when the glut is on, thereby enabling him to run a special or use the extra quantity (which he would purchase at the reduced figure) to make a window display? The attention would attract credit to that store and incidentally create a heavier demand from the wholesaler by reason of the increased patronage which the retailer would receive. True, they move stock we couldn't; but is it right that we should pay a higher price than they for the good stock we so often see upon the street, when we in winter pay the price which they will not? The up-to-date retailer, if given a chance at low-priced stock, will consider a display of same a good form of advertising. You claim the fakirs move stock which would otherwise stand; when next overstocked, give us a chance to do a little moving and the result will, I think, be a pleasant, profitable surprise. The retailer is a grateful but independent man, and does not desire something for nothing, but only asks the same desire to serve him in January as is displayed in July and his sun will always shine bright. Discuss all subjects with your retailer that concern him, inject into every club meeting a social feature, and the distrust now existing throughout the trade will give way to a better feeling between wholesaler and retailer, and good fellowship will be the stepping stone to a better understanding of each other.

Under the title of "A Remarkable New Fern," The Garden, London, in its issue of November 30, 1907, congratulates F. R. Pierson upon raising and introducing so fine a novelty as *Nephrolepis superbissima*. A drawing of the fern accompanies the article.

E. A. BEAVEN
Southern Wild Smilax,
Log Mosses,

Natural and Perpetuated — at Wholesale.

EVERGREEN, ALABAMA.

EXTRA FINE BOXWOOD \$17.50 per CWT.

GALAX LEAVES GREEN \$1.00 per 1000.
BRONZE, new crop in a few days.

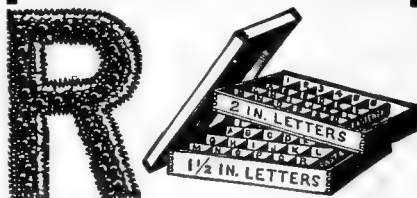
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Best Ferns in Market \$1.25 per 1000.

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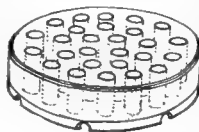
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The "Japan" Cut Flower Holder



A handy article for florists. Sells to the trade on sight. Made of glass in three sizes. The "Anglais" Table Decoration, something entirely new, long needed. The florist and housewife will appreciate this article, as it simplifies the art of table decorating.

Ask for catalog.

M. V. CARNSEY, Dept. D,
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GALAX LEAVES

New crop, fresh from the patch, prices as follows:

Bronze and Green Galax Leaves.....	\$0.50 per 1000
Fancy and Dagger Ferns.....	1.00 per 1000
Green Leucothoe Sprays.....	2.50 per 1000
Bronze ".....	4.00 per 1000
Khododendron Sprays.....	2.50 per 1000
Kalmia or Mountain Laurel.....	2.50 per 1000

Discount on large orders. Fourteen years' experience enables me to guarantee perfect satisfaction. 250 customers now in U. S. Send cash with first order.

J. N. PRITCHARD, Elk Park, N. C.



FANCY AND DAGGER FERNS

Best quality, 75c per 1000.

BOUQUET GREEN, 7c. per cwt.

CHRISTMAS TREES

by the car load or any way you want them.

ROBERT GROVES
127 Commercial St., ADAMS, MASS.

Christmas Greens from the Maine Woods

Fine Fir Balsams for Christmas trees up to ten feet at reasonable prices. Also Hemlock and Fir Balsam boughs for decorations any lengths wanted. \$1.00 per 100 lbs.

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ON TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

NEWS NOTES.

D. Smith & Co. have started in the
wholesale cut flower business in New
York at 111 W. 28th street.

The flower department in the Edel-
man drug store, Sheridan, Wyoming, is
in charge of H. Adam Loucks.

Chas. Kausch of Louisville, Ky., has
taken a position with the Washington
Florists' Co., Washington, D. C.

W. S. Woner, florist, of Fort Clin-
ton, O., has filed a petition in bank-
ruptcy, liabilities, \$3,931.56; assets,
\$3,475.

F. L. Zeigler, florist, Newport, R. I.,
has taken the adjoining store for the
display of his Christmas specialties,
of which he has a large variety.

Fire which started in the boiler
shed and work rooms of the Ansonia
Floral Co., Ansonia, Conn., early on
the morning of December 13, destroyed
the buildings and greenhouses. The
loss to the company is \$4,000 with no
insurance. The loss of the owner, Mrs.
Hill, is partially covered by insurance.

NEW RETAIL FLOWER STORES.

Seattle, Wash.—Sam Graff, 1515 Pike
place.

F. C. Riebe, Stockwell Block, Web-
ster, Mass.

Nick Nicharias, Pittsburgh Life
Building, Pittsburgh, Pa.

J. R. Jacques, florists' supplies, 1339
Bush street, San Francisco, Cal.



PROMPT DELIVERY IN BOSTON

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HOUGHTON & CLARK
396 Brylston St., Boston, Mass.

Send flower orders for delivery in

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and all
NEW ENGLAND POINTS
THOS. F. CALVIN
124 Tremont St., Boston

TRANSFER

Your orders for flower or plant delivery in
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Fine Design Work a Specialty.

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Long Distance Phones: Bell, Forest 56; Kinloch, Delmar
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41 Peachtree Street, ATLANTA GEORGIA.

Florists Out of Town

Taking orders for delivery in
New York or Vicinity

can have them filled in best
manner and specially deliv-
ered by

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Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
transferred or intrusted by the trade to
our selection for delivery on steamships
or elsewhere receive special attention.

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Special Attention to Theatre
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In Brooklyn and other Long Island Points
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Hotels, Steamers or Residence.

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\$7.50 per Case.

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From 40 to 60 Growers

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Western Headquarters for Choice Orchids
Valley, Roses and all Cut Flowers

PETER REINBERG
WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.
In writing advertisers mention Horticulture

AMERICAN BEAUTY and all other
ROSES
LILY OF THE VALLEY, CARNATIONS
WELCH BROS., 226 Devonshire St., Boston, Mass.

WHOLESALE FLOWER MARKETS
TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	Dec. 17		Dec. 17		Dec. 18		Dec. 19	
ROSES								
Am. Beauty, Fancy and Special...	30.00	to 40.00	40.00	to 60.00	30.00	to 50.00	25.00	to 35.00
" Extra	20.00	to 25.00	35.00	to 40.00	25.00	to 30.00	15.00	to 20.00
" No. 1	10.00	to 12.00	25.00	to 30.00	12.50	to 20.00	10.00	to 12.00
" Lower grades	6.00	to 8.00	5.00	to 8.00	8.00	to 10.00	4.00	to 8.00
Bride, 'Maid, Fan-y & Special	6.00	to 8.00	6.00	to 8.00	8.00	to 12.00	6.00	to 8.00
" Extra	3.00	to 5.00	4.00	to 6.00	5.00	to 8.00	4.00	to 6.00
" Lower grades	2.00	to 3.00	2.00	to 3.00	3.00	to 5.00	1.00	to 3.00
Killarney, Richmond, Fan & Sp.	8.00	to 15.00	8.00	to 12.00	8.00	to 15.00	6.00	to 10.00
" Lower grades	3.00	to 6.00	4.00	to 6.00	3.00	to 5.00	3.00	to 5.00
Chat-nay, Wellesley, Fan. & Sp.	8.00	to 10.00	8.00	to 12.00	8.00	to 12.00	6.00	to 8.00
" Lower grades	3.00	to 5.00	3.00	to 6.00	3.00	to 8.00	2.00	to 4.00
Golden Gate Ivory	2.00	to 8.00	3.00	to 6.00	3.00	to 10.00	2.00	to 6.00
CARNATIONS								
Fancy and Novelties	4.00	to 5.00	4.00	to 6.00	4.00	to 6.00	3.00	to 4.00
Ordinary	3.00	to 2.00	3.00	to 4.00	2.00	to 3.00	1.00	to 2.00
MISCELLANEOUS								
Violets	.50	to 1.00	1.00	to 1.50	.50	to 1.50	.50	to .75
Cattleyas	50.00	to 60.00	50.00	to 60.00	6.00	to 75.00	50.00	to 60.00
Cypripediums	15.00	to 20.00	20.00	to 30.00	15.00	to 20.00	12.00	to 15.00
Lilies	15.00	to 15.00	15.00	to 25.00	12.50	to 15.00	10.00	to 12.00
Lily of the Valley	3.00	to 5.00	3.00	to 5.00	2.00	to 5.00	2.00	to 4.00
Rom-in-Hy, Paper White Nar.	3.00	to 3.00	3.00	to 5.00	2.00	to 4.00	2.00	to 3.00
Poinsettias	25.00	to 35.00	35.00	to 50.00	15.00	to 30.00	25.00	to 35.00
Stevia	1.50	to 2.00	2.00	to 3.00	1.00	to 1.50	1.00	to 1.00
Mignonette	4.00	to 6.00	4.00	to 5.00	3.00	to 6.00	3.00	to 6.00
Chrysanth emums	8.00	to 15.00	15.00	to 25.00	5.00	to 25.00	5.00	to 15.00
Adiantum	.75	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax	10.00	to 10.00	10.00	to 16.00	12.50	to 20.00	8.00	to 12.00
Asparagus Plumosus, strings	50.00	to 60.00	35.00	to 40.00	50.00	to 75.00	50.00	to 50.00
" " & Soren. (100 bchs.)	15.00	to 20.00	35.00	to 40.00	35.00	to 50.00	25.00	to 50.00

THE FLORISTS' SUPPLY HOUSE OF AMERICA

Without a rival in knowledge of the requirements of the trade and the ability to supply them. Our New Illustrated Catalogue, recognized as a work of art unprecedented in its line for variety, novelty and completeness, tells the story fully, and if you have not yet sent for it, do so now.

'TIS FREE TO EVERYBODY IN THE TRADE

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Holly and Holly Wreaths

Our personal selection from a visit
to the best producing centers

\$4.00 and \$5.00 per case

Wreaths, \$12.00 and \$15.00 per 100

BERGER BROS. Wholesale Commission
Florists
1305 Filbert Street, PHILADELPHIA

WE SOLICIT

new accounts and guarantee our growers good
satisfaction and prompt returns.

WE CARRY

all the staples in season and also many exclusive
specialties. Careful packing, prompt delivery.
Let us hear from you on your Christmas wants.

ASPARAGUS PLUMOSUS A SPECIALTY

ALFRED M. CAMPBELL, Wholesale Commission
Florist
1510 Sansom St., PHILADELPHIA

A Fine Assortment of

==AZALEAS==

Extra fine lot of **FIREFLY** in bloom from

CHRISTMAS to EASTER

WRITE FOR PRICES

MAJOR BONNAFFON

The best all 'round Yellow Chrysanthemum. [Strong stools,
\$5.00 per 100

W. W. EDGAR CO., Waverley, Mass.

Anything of Value
to the profession

CAN BE SOLD

through advertising in

Horticulture

FLOWER MARKET REPORTS

BOSTON Material is shortening up
in the wholesale markets.

We don't like to say that
it is being held back in cellars and odd
dark corners by the growers, but cer-
tain it is that it is not forthcoming.
This is in line with the experience of
past years and we may reasonably
predict that there will be no surplus
in the market until the day before
Christmas. We might add that, in line
with past experience, the grower who
does not withhold his material in hid-
ing but sends it in when ready stands
best chance to win out.

DETROIT Retail business through-
out the city is acquiring
the usual holiday aspect
though it appears that prices in
general are somewhat reduced. The
florist business has been very quiet
but not unusually so. At any rate
it would not be just to predict
a smaller amount of business this
year than last although it may be
wise to curtail the number of high-
priced baskets, etc., etc. Considering
the various bookings of elaborate
decorations directly after Christmas
we may escape the usual after-holiday
lull.

The majority of
INDIANAPOLIS florists report lit-
tle or nothing do-
ing. Beauties, teas, carnations, violets

and other seasonable stock continue to
come in good shape, and some good or-
chids are seen on the market. Poinset-
tias, azaleas, Lorraine begonias and
cyclamens predominate in the flowering
plant line. The outlook at present is
that there will be plenty of everything
for Christmas. With the disappear-
ance of chrysanthemums stock was a
little short of the demand the first of
the week, the prices having advanced
all along the line. If all reports are
true in our city, we can look for better
things from this time on. The holiday
spirit is now in the air, and the pros-
pects are good for a big trade.

The supply is ample
NEW YORK for all demands at
present, and the indi-
cations are that this will hold true on
most lines next week, even under the
pressure of the Christmas demand.
The weather has been favorable to
full crops and should it continue in
the same quarter the customary holi-
day prices are likely to get a jolt.
Wintry skies and blustering storms
may interpose but their effect is not
likely to be very serious, and the out-
look favors most decidedly the man who
has made up his mind to a reasonable
valuation on his product and proposes
to stand by it. The prospects are that
phenomenal values will not prevail.

The usual lull be-
PHILADELPHIA fore Christmas.
Prices advanced a
trifle last week but are still much be-

low the normal of recent years. Last
week's business was still further de-
pressed by stormy weather, especially
on Saturday the 14th, when the big
overturn expected did not materialize.
The rose market suffers about the
worst. American Beauties were never
better in quality but it seems impos-
sible to jack-up the prices to where
they belong. Teas go fairly well,
white being probably the best seller.
Richmonds are fine and at this season
seem to be preferred to Liberty. There
is rather more of an upward tendency
in the carnation market—that staple
being on a healthier basis than most
others. Violets are moving fairly well.
Home grown Campbell and Princess
preferred—these being rather sweeter
than the Hudsons. Cattleyas and
Cypripediums are more plentiful. Lily
of the valley is very good but trading
is not brisk. Roman hyacinths and
Paper Whites sluggish. Mignonette
fine quality and in good demand. Holly
is scarce. Mistletoe on the long side.
All told, the market for decorative
material is healthy and satisfactory.

Business in the Twin
TWIN CITIES Cities is getting a lit-
tle dull. Plenty of
stock on hand except carnations.
Prices are about the same as last week
with a tendency to go up higher for
the holidays.

The KERVAN CO. 113 W 28th ST
New York

WHOLESALE DEALERS

Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leu-
cothe, Ferns and Mosses. All Decorating Evergreen.

JOHN YOUNG**WHOLESALE FLORIST**Finest American Beauties and
Carnations

51 West 28 St. - NEW YORK

FORD BROTHERS

48 West 28th Street, NEW YORK

FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

Telephone, 3870 or 3871 Madison Square

H. E. FROMENT,

Wholesale Commission Florist,

Choice Cut Flowers,

57 West 28th St., :: NEW YORK.

Telephones: 2200, 2201, Madison Square.

The Reliable Commission HouseRichmond Roses and Rich Flowers
of all varieties**JOS. S. FENRICH**

110 W. 28th Street, New York

Tel. 324-325 Madison Square

Established
1891BUY FROM
SHIP TO
TRY**ME****ALFRED H. LANGJAHR**

All Choice Cut Flowers in Season

55 West 28th St., New York

Telephone 3924 Madison Square.

JOHN I. RAYNOR**Wholesale Commission Florist**SELLING AGENT FOR
LARGEST GROWERSA full line of Choice Cut Flower stock for all purposes. Comprises every variety
grown for New York market, at current prices

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CHOICE CUT FLOWERS

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**HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY**THE HIGHEST
GRADE OF **VALLEY** ALWAYS
ON HAND

CARNEDIAS, DAISIES, ROSES AND CARNATIONS

Telephone
JAMES McMANUS, 759 Mad. Sq. 42 W. 28th St., New York**PHILIP F. KESSLER**

55 & 57 W. 26th St., New York City

Commission Dealer, Wholesale Buyer
and Seller ofOpen from 5 a. m. to 6 p. m. Sunday
till 10 a. m.

Tel., 5243 and 2921 Madison Sq. Res., 345 J., Newtown.

CUT FLOWERS

Finest Lilies in the Market Every Day in the Year.

**WHOLESALE
COMMISSION
FLORIST**

OPEN 6 A.M. DAILY

J. K. ALLEN106 W. 28 ST.
NEW YORKTelephone 107
Madison Sq.

We have a good regular outlet for seasonable flowers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Dec. 14 1907	First Half of Week beginning Dec. 16 1907		Last Half of Week ending Dec. 14 1907	First Half of Week beginning Dec. 16 1907
Roses			Cattleyas.....	..... to 75.00	..... to 75.00
Am. Beauty, fan and sp.	10.00 to 20.00	10.00 to 20.00	Cypripediums	15.00 to 17.00	15.00 to 17.00
" extra	8.00 to 10.00	8.00 to 10.00	Lilies	4.00 to 8.00	4.00 to 8.00
" No. 1	5.00 to 8.00	5.00 to 8.00	Lily of the Valley.....	1.00 to 2.00	1.00 to 3.00
" Lower grades .....	..... to 1.00	..... to 1.00	Gardenias.....	10.00 to 25.00	10.00 to 25.00
Bride, 'Maid, Golden Gate, fan & sp	4.00 to 8.00	4.00 to 8.00	Roman Hy., Paper White Nar. ..	2.00 to 3.00	2.00 to 3.00
" " " extra ...	2.00 to 3.00	2.00 to 3.00	Poinsettias	25.00 to 35.00	25.00 to 35.00
" " " lwr. grds.	1.00 to 1.50	1.00 to 1.50	Stevia .....	..... to 1.00	..... to 1.00
Killarney, Richmond, fancy & spec	4.00 to 8.00	4.00 to 8.00	Chrysomette	4.00 to 8.00	4.00 to 8.00
" " " lower grades	1.00 to 1.50	1.00 to 1.50	Chrysan hemums	8.00 to 12.00	8.00 to 12.00
Chatenay, Wellesley, fan. and spec.	5.00 to 8.00	5.00 to 8.00	Adiantum	1.00 to 1.50	1.00 to 1.50
" " " lower grades.	1.00 to 3.00	1.00 to 3.00	Smilax	8.00 to 12.00	8.00 to 12.00
Golden Gate, Ivory	1.00 to 4.00	1.00 to 5.00	Asparagus Plumosus, strings....	25.00 to 40.00	25.00 to 40.00
Carnations, Fancy and Novelties...	2.00 to 1.00	2.00 to 4.00	" " & Spreu. (100 bchs.) .....	..... to 15.00	..... to 15.00
" Ordinary .....	..... to .60	..... to 1.00			
Violets .....	.30 to .50	.30 to .60			

B. S. SLINN, Jr.

—WHOLESALE FLORIST—

55 & 57 W. 26th St., New York City

Tel., 3864 Madison Sq. Shipping Orders Solicited.

VIOLETS Roses and
Carnations**Edward C. Horan****Wholesale Florist**

55 WEST 28th ST.

Tel. 1462
1463 Madison Square New York**TRAENDLY & SCHENCK**
WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on fall orders

Tel. 798-799 Madison Sq.

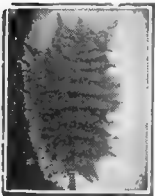
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Alexander J. Guttman**THE WHOLESALE FLORIST OF NEW YORK**

43 WEST 28th STREET

PHONES. 1664-1665 MADISON SQUARE

ENOUGH SAID



HARDY CUT FERNS

Sphagnum Moss, Extra Large Bales, per bale, \$1.25. Fancy and Dagger Ferns our specialty. A trial order will convince you that we ship only first-class stock. Headquarters for Florists' supplies and wire work. All cut flowers in season. BOXWOOD, per bunch 35c, 50 lbs. \$7.50.

MICHIGAN CUT FLOWER EXCHANGE, INC.,

All 'phone connections

38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

54 West 28th St.
NEW YORK

Telephone 3559 Madison Sq.

A. L. YOUNG & CO.

RECEIVERS & SHIP-
PERS OF CUT
FLOWERS.

CONSIGNMENTS SOLICITED.

Headquarters in Western New York

FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

Wm. F. Kasting Co.

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

**383-87 ELLICOTT ST.
BUFFALO, N. Y.**

Give us a trial. We can please you.

FRANK S. HICKS & CO.

Wholesale Florists.

Open Now for Consignments of Cut Flowers.

52 West 28th Street, - New York City

Tel. 2920 Mad. Sq.

FRANK MILLANG

Wholesale Florist

Telegraphic Orders Filled and Delivered.

55-57 West 26th St., New York City.

Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission

A Reliable Place to Consign to or order from

Telephone: 3860-3871 Madison Square

A. MOLTZ

Will purchase flowers on order in
N. Y. market and ship carefully at
prevailing wholesale prices. Address

55-57 West 26th Street, New York City

Best Flowers

IN THE

BOSTON MARKET

N. F. McCarthy & Co.

84 Hawley St., BOSTON, MASS.

Send for Prices

SAMUEL A. WOODROW

WHOLESALE PLANTSMAN

Palms, Large and Small Ferns, etc.

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Telephone 2083 Madison

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

Tel. 4591 Main

CLEARY'S HORTICULTURAL CO.

Management AMBROSE T. CLEARY

Wholesale Contracting, Jobbing, Auction

HORTICULTURAL PRODUCTS

of every description.

Consignments Received. Surplus Stock Converted.

62 Vesey St., NEW YORK

Moore, Hentz & Nash,

Wholesale Commission Florists,

55 and 57 West 26th Street,

Telephone No. 756
Madison Square.

New York.

H. C. BERNING

Wholesale Florist

1402 Pine Street, ST. LOUIS, MO.

Alex Mann, Jr. Co. Inc.

Wholesale Dealer in

Florists' Supplies and Cut Flowers

White Doves, \$9.00 per doz.
Galax Leaves.

1125 Polk Street, San Francisco, Cal.

J. B. Murdoch & Co.

Wholesale Florists

FLORISTS' SUPPLIES

545 Liberty St., PITTSBURG, PA.

Long Distance 'Phone 1435 Court.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties

and are dealers in

Glassware Decorative Greens and Florists' Requisites.

WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Dec. 17		Dec. 17		Dec. 18		Dec. 17	
ROSES								
Am. Beauty, Fan. and Sp.....	50.00	to 75.00	75.00	to 100.00	30.00	to 50.00	30.00	to 40.00
" Extra.....	40.00	to 50.00	50.00	to 75.00	20.00	to 25.00	20.00	to 25.00
" No. 1.....	20.00	to 30.00	25.00	to 50.00	10.00	to 15.00	12.50	to 15.00
" Lower grades.....	10.00	to 15.00	8.00	to 20.00	6.00	to 10.00	6.00	to 8.00
Bride, 'Maid, F. & S.....	8.00	to 10.00	10.00	to 18.00	.....	to 10.00	12.00	to 15.00
" Extra.....	6.00	to 8.00	8.00	to 12.00	.....	to 8.00	8.00	to 10.00
" Low gr.....	4.00	to 6.00	6.00	to 8.00	4.00	to 6.00	.....	to 6.00
Killarney, Richmond, Fan. & Sp.....	8.00	to 10.00	10.00	to 18.00	8.00	to 15.00	.....	to 18.00
" Lower grades.....	4.00	to 6.00	6.00	to 10.00	4.00	to 8.00	6.00	to 8.00
Chatenay, Wellesley, Fan. & Sp.....	8.00	to 10.00	10.00	to 18.00	8.00	to 15.00	.....	to 12.00
" Lower grades.....	4.00	to 6.00	6.00	to 10.00	4.00	to 8.00	6.00	to 8.00
Golden Gate, Ivory.....	4.00	to 6.00	10.00	to 18.00	5.00	to 10.00	6.00	to 8.00
CARNATIONS								
Fancy and Novelties.....	4.00	to 5.00	6.00	to 10.00	4.00	to 15.00	.....	to 5.00
Ordinary.....	2.00	to 3.00	4.00	to 6.00	2.00	to 4.00	2.00	to 3.00
MISCELLANEOUS								
Violets.....	.75	to 1.00	1.50	to 2.50	1.00	to 1.50	1.00	to 1.50
Cactleyas.....	75.00	to 100.00	50.00	to 75.00	60.00	to 75.00	.....	to 75.00
Cypripediums.....	15.00	to 20.00	8.00	to 12.00	15.00	to 20.00	.....	to 15.00
Lilies.....	.....	to 15.00	15.00	to 20.00	4.00	to 15.00	15.00	to 20.00
Lily of the Valley.....	4.00	to 5.00	4.50	to 5.50	3.00	to 5.00	4.00	to 5.00
Roman Hy., Paper White Nar.....	3.00	to 4.00	4.00	to 8.00	2.50	to 4.00	2.00	to 4.00
Poinsettia.....	15.00	to 25.00	25.00	to 50.00	25.00	to 40.00	30.00	to 50.00
Stevia.....	.....	to 1.00	2.00	to 3.00	1.00	to 1.25	.....	to 2.00
Mignonette.....	3.00	to 6.00	3.00	to 6.00	3.00	to 6.00	6.00	to 8.00
Chrysanthemums.....	8.00	to 15.00	10.00	to 25.00	15.00	to 20.00	8.00	to 15.00
Adiantum.....	.....	to 1.00	1.50	to 2.50	.50	to 1.50	1.00	to 1.20
Smilax.....	12.50	to 15.00	15.00	to 25.00	.....	to 15.00	15.00	to 18.00
Asparagus Plumosus, strings.....	40.00	to 50.00	50.00	to 75.00	50.00	to 60.00	to 50.00
" " & Sprigs (for bchs.).....	25.00	to 35.00	40.00	to 60.00	25.00	to 40.00	25.00	to 40.00

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Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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Aquarium plants, the year around. Wholesale and retail. Send for price list.
Schmid's Emporium of Pets, 712 12th St., Washington, D. C.

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Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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Maxfield & Dimond, Warren, R. I.
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Asparagus Sprengeri, field grown, \$4.00 and \$6.00 per 100. C. Winterlich, Defiance, Ohio.

Asparagus Plumosa, 2 in. pots. Fine plants. \$2.50 per 100; \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa.; or, Wm. F. Kasting Co., 385 Ellcott St., Buffalo, N. Y.

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Cleary's Horticultural Co., 62 Vesey St., New York.
Horticultural Products of Every Description.

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Sales every Tuesday and Friday. If you cannot attend send bids and shipping instructions. Catalogues on application. N. F. McCarthy & Co., 84 Hawley St., Boston.

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Bay State Nurseries, N. Abington, Mass.

For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.

For page see List of Advertisers.

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Stump & Walter Co., 50 Barclay St., New York.

For page see List of Advertisers.

Yokohama Nursery Co., 31 Barclay Street, New York.

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Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

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BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOXWOOD

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

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Henry M. Robinson & Co., 15 Province St., Boston.

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BUILDING MATERIAL of all description for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

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Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

Roman Hyacinths; Bermuda Easter Lilies.

For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y.

For page see List of Advertisers.

Rickards Bros., 37 East 19th St., New York.

For page see List of Advertisers.

H. F. Michell Co., Philadelphia.

For page see List of Advertisers.

H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y. Fall Bulbs.

For page see List of Advertisers.

D. Rusconi, 128 W. Sixth St., Cincinnati, O.

Callas, Narcissi, Dutch Bulbs.

For page see List of Advertisers.

Aug. Rolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs.

For page see List of Advertisers.

John Scheepers & Co., 4 and 6 Old Slip, New York.

Lily of the Valley Excellents.

For page see List of Advertisers.

Ralph M. Ward & Co., 12 W. Broadway, New York.

Japan Bulbs.

For page see List of Advertisers.

Wm. Hagemann & Co., 55 Dey St., New York.

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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

CARNATIONS

Field Grown

Chicago Carnation Co., Joliet, Ill.

Carnation Andrew Carnegie.

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The H. Weber & Sons Co., Oakland, Md.

Seedling Carnation Treador.

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Rooted Cuttings

John E. Haines, Bethlehem, Pa.

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F. Dorner & Sons Co., Lafayette, Ind.

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S. S. Skidelsky, 1741 N. 18th St., Philadelphia.

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Frank H. Kimberly, 631 Townsend Ave., New Haven, Ct.

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CHRISTMAS GREENS

Chas. L. Chadbourne, N. Bridgton, Me.

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CHRISTMAS PLANTS

S. S. Pennock-Meehan Co., Phila., Pa.

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Robert Craig Co., Market & 49th Sts., Philadelphia.

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CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.

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A. N. Pierson, Cromwell, Conn.

Chrysanthemum Stock Plants.

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Nathan Smith & Son, Adrian, Mich. Novelty Chrysanthemums.

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Wm. Swayne, Kennett Square, Pa.

Chrysanthemum Stock Plants.

W. W. Edgar Co., Waverley, Mass.

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CHRYSANTHEMUMS—Continued.

Chrysanthemums, leading varieties in white, pink, yellow and red. Prices of rooted cuttings and 2-12 in. stock are given on application. Poehlmann Bros. Co., Morton Grove, Ill.

Chrysanthemums, strong stock plants of Bonnafon, Enguehard, Nonin, J. Jones, etc., \$4.00 per 100. Rooted cuttings of Clay Frick and Beatrice May, \$5.00 per 100. Frank Shearer & Son, Binghamton, N. Y.

CINERARIAS

John J. Coonan, Haverstraw, N. Y.
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CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Bay State Nurseries, North Abington, Mass.

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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Edwards Folding Box Co., Philadelphia.

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Getmore Box Factory, Inc., Belleville, Ala. Light Wood Boxes.

We Have Them.

Send for New Illustrated Catalogue.

H. Bayersdorfer & Co.,

1129 Arch St., Philadelphia, Pa.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

DAHLIAS

David Herbert & Son, Atco, N. J.

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R. Vincent, Jr. & Sons Co., White Marsh, Md.

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A. B. Davis & Son, Purcellville, Va.

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R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.

New Dahlia Chas. Lanier.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.

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Julius Roehrs, Rutherford, N. J.

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Anton Schultheis, College Point, N. Y.

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FERNS

A. Leuthy & Co., Roslindale, Mass.

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H. H. Barrows & Son, Whitman, Mass. Nephrolepis Whitmanii.

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Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.

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John Scott, Brooklyn, N. Y.

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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

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FERTILIZERS

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.

Wizard Brand Cattle Manure.

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Thos. J. Grey & Co.,

32 and 33 South Market St., Boston.

High-Grade Scotch Soot.

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FLORISTS' GREENING PINS

We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
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Koral Mfg. Co., 26 Hawley St., Boston.
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We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

FLORISTS SUPPLIES

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y. Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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Alex. Mann, Jr., Co., 1125 Polk St., San Francisco, Calif.
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FLOWER POT COVER

Ever Ready Flower Pot Cover Co., 146 Hughes Av., Buffalo, N. Y.

FLOWER POT HANDLE AND HANGER

W. C. Krick, 1164-66 Greene Ave., Brooklyn, N. Y.

FLOWERS BY TELEGRAPH

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Atlanta Floral Co., Atlanta, Ga.
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P. J. Hauswirth, 232 Michigan Ave., Chicago.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Thos F. Galvin, 124 Tremont St., Boston.
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Julius A. Zinn, 2 Beacon St., Boston.
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Houghton & Clark, 396 Boylston St., Boston.
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Sidney Hoffman, 59-61 Massachusetts Ave., Boston.
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J. Breitmeyer's Sons, Miami and Gratiot Aves., Detroit, Mich.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Wm. L. Rock Flower Co., 1116 Walnut St., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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Alex. McConnell, New York.
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A. Warendorff, 1193 Broadway, New York.
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Robert G. Wilson, Fulton St. & Greene Av., Brooklyn, N. Y.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

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Hilfinger Bros., Ft. Edward, N. Y.
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FORCING ROOTS

Bobbink & Atkins, Rutherford, N. J.
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GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
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Finest green and bronze Galax in any quantity at lowest figures. N. F. McCarthy, 84 Hawley St., Boston.

We Have It.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

W. M. Woodruff & Co., Lowgap, N. C.
J. N. Pritchard, Elk Park, N. C.
Galax Leaves.

GERANIUMS

R. Vincent Jr. & Sons Co., White Marsh, Md.

New and Standard Varieties.
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GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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J. L. Moore, Northboro, Mass.
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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

Gladiolus Bulbs, Groff's Hybrids, extra large and nice bulbs measuring as high as 10 and 12 inches in circumference, \$1.50 per 100; \$12.00 per 1000. Cash. E. A. Muchow, Clarence, N. Y.

Gladioli Colvilli Alba, \$1.00 per 100; \$7.50 per 1000. Gladioli Rosea, \$1.25 per 100; \$9.00 per 1000. America, light pluk, immense flower, \$1.00 per doz.; \$7.50 per 100. Cushman Gladiolus Co., Sylvania, O.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., 26-30 Sudbury St., Boston.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co. N. Tonawanda, New York.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.
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D. Iliffe, 49 Washington St., N., Boston Piping and Construction.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouse, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1123 Broadway, N. Y.

J. A. Payne, 260-274 Culver Ave., Jersey City, N. J.
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I. Cassidy, 215 to 221 Randolph Ave., Jersey City, N. J.
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GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND SUPPLIES

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The Kervan Co., 113 W. 28th St., N. Y.
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Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich. Fancy Ferns.
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Robert Groves, 127 Commercial St., Adams, Mass.

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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY HERBACEOUS PLANTS

Bay State Nurseries, N. Abington, Mass.
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New England Nurseries, Inc., Bedford, Mass.
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In writing to Advertisers kindly mention Horticulture

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Berger Bros., 1305 Filbert St., Phila.
Holly and Holly Wreaths.
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HOT-BED SASH

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INSECTICIDES.

Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil.
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Carman's Anti-pest.

Perfection Chemical Co., Flushing, N. Y.
W. W. Rawson & Co., 5 Union St., Boston.
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Nicotide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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Nicotine Mfg. Co., St. Louis, Mo.
Nikoteen.
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JAPANA CUT FLOWER HOLDER

M. V. Garnsey, 130 So. Watola Av., La Grange, Ill. Dept. D.
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We Have Them.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

JARDINIERES

Jones, McDuffee & Stratton Co.,
33 Franklin St., Boston.
Garden Hall and Piazza Seats.

KENTIAS

A. Leuthy & Co., Roslindale, Mass.
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Houghton & Clark, 396 Boylston St., Boston.
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Alex. McConnell, New York.
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A. Warendorff, 1193 Broadway, New York.
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Robert G. Wilson, Fulton St. and Greene Ave., Brooklyn, N. Y.
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Thomas Young, Jr., New York.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

NEW AND RARE PLANTS

Rose Hill Nurseries, New Rochelle, N. Y.
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NICO-FUME

Kentucky Tobacco Product Co., Louisville, Ky.
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NURSERY STOCK

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
Specimen Pyramidal Box.
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The Conard & Jones Co., West Grove, Pa.
Hardy Stock.
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Bay State Nurseries, N. Abington, Mass.
Herbaceous Perennials, Hardy Ornamental Trees.
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Cleary's Horticultural Co., 62 Vesey St., New York.
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P. Ouwerkerk, 216 Jane St., Weehawken Heights, N. J.
Holland Nursery Stock for Forcing.
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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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Jos. A. Manda, 191 Valley Road, W. Orange, N. J.
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Ordouez Bros., Madison, N. J., Box 105.
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PALMS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
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H. A. Dreer, 714 Chestnut St., Philadelphia.
Palms for Decorating.

Kentia, Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice pansy plants, 50c. per 100; \$4.00 per 1000. Cash. Aug. Zirngiebel, Needham, Mass.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat, Leaf-Mould, Live Sphagnum moss, Baled Sphagnum moss, Green Clump moss, etc. Jobbers' list on application. C. W. Brownell & Co., Walden, N. Y.

PHOENIX ROEBELINI SEED

Yokohama Nursery Co., 31 Barclay St., New York.

PIPE AND FITTINGS

Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS

Primroses, old-fashioned dble. white, strong. Plants full of bloom, 10 cents. Levant Cole, Battle Creek, Mich.

PRUNING SHEARS

Rhodes Mfg. Co., Grand Rapids, Mich. Dept. R.

PYRIMIDAL BOX

Bay State Nurseries, N. Abington, Mass.
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RAFFIA

Samples free. Large assortment of colors. R. H. Comey Co., Camden, N. J., or, 810-824 Washburn Ave., Chicago.

We Have It.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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Lady Gay Roses.
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Rambler Rose, Newport Fairy.
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New England Nurseries, Inc., Bedford, Mass.

Roses for Forcing.
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Bay State Nurseries, N. Abington, Mass.
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Bobbink & Atkins, Rutherford, N. J.
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Palisades Nurseries, Sparkill, N. Y.
Crimson Rambler Roses.
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A. T. Boddington, 342 W. 14th St., New York
Forcing Ramblers and Hybrid Roses.

400 varieties; own roots; summer grown.
Leedle Company, Springfield, Ohio.

Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Crimson Ramblers, extra strong, 3-yr., for forcing, at 9 cts.. Gilbert Costich, Rochester, N. Y.

SCALECIDE

B. G. Pratt Co., 11 Broadway, New York.
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T. J. Grey Co., 32 So. Market St., Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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A. T. Boddington, 342 W. 14th St., N. Y.
Vinca Seed.
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H. F. Mitchell Co., 1017 Market St., Phila.
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James Vick's Sons, Rochester, N. Y.
Vick's Superb Pansy Seed.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 E. 19th St., New York.
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R. & J. Farquhar & Co., 67 So. Market St., Boston.
Giant Cyclamen Seed.
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C. C. Morse & Co., 48-56 Jackson St., San Francisco, Cal.
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H. E. Flske Seed Co., Faneuil Hall Sq., Boston.
Cyclamen Seed.
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Braslan Seed Growers Co., San Jose Cal.
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O. V. Zangen, Hoboken, N. J.
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SMILAX

E. A. Reaven, Evergreen, Ala.
Southern Wild Smilax: Log Mosses.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

We Have It.

Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

Sphagnum Moss and Peat, fresh stock; Floral Moss a specialty. Guaranteed to give satisfaction. Write for prices. W. H. Stackhouse, prop., Box 11, Waretown, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schnitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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VEGETABLE PLANTS

Tomatoes for forcing, 2 1-2 in. Comet, \$2.50; Lorillard, \$2.00 per 100. Roney Bros., West Grove, Pa.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.
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John A. Payne, 260-274 Culver Ave., Jersey City, N. J.
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VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1193 Broadway, N. Y.

VIOLETS.

Baur Floral Co., Erie, Pa.

WIRE STAKES

W. W. Coles, Kokomo, Ind.
Galvanized Wire Stakes.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

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SEEDS, NEW STOCK.

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SNOWBALL CAULIFLOWER SEED.

R. Wiboltt, Nakskov, Denmark.
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FORESTRY LEGISLATION IN ALABAMA.

At the recent special session of the Legislature an important forestry bill was passed. The law provides for a Commission of Forestry consisting of the Governor, a member of the Tax Commission, Game and Fish Commissioner, Commissioner of Agriculture and Industries, a practical lumberman, a member of the U. S. Forest Service and the Professor of Forestry in the Alabama Polytechnic Institute. This Commission is to elect one of their own number secretary.

Duties: To publish an annual report on the forest conditions, with reference to preservation, destruction, etc., upon the welfare of the State. To accept gifts of land and to provide for proper management. To exempt from taxation denuded land which is properly cared for during a period of ten years. To look after fires and trespass.

To defray the incidental expenses the sum of five hundred dollars is appropriated. All fines and revenue from Reserves goes to a fund to be called the Forest Reserve Fund.

Section 18-1-2 provides for the acquisition of land by the United States Government for Forest Reserves and the jurisdiction thereof. Doubtless this is in reference to the establishment of the proposed Appalachian Reserve.

While this law does not provide for all conditions which its friends desire, yet, it is a very good start and in a few years will lead to a better appreciation of the forest resources of the State.

NEWS NOTES.

James Scott, representing Scott Bros., of Elmsford Nurseries, New York, was in Lenox, Mass., last week.

The Haskell Seed and Implement Co. will start in business in Boston at 20 South street about January 1.

F. E. Palmer, Brookline, Mass., is having a large boiler room and storage building erected on Dedham street.

Alfred Lemke, florist, 31 E. 6th street, St. Paul, Minn., has filed a petition in bankruptcy; liabilities, \$2,392.16, assets, \$425, of which \$125 is claimed as exempt.

R. Peterson is making extensive improvements in the Hudson greenhouses, Hudson, Mich., which he recently purchased, and is putting up additional houses of the latest type.

Fire which did about \$700 damage destroyed one of the greenhouses in St. John's cemetery, High street, Or-

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

MUNICIPAL CIVIL SERVICE COMMISSION,
299 Broadway.

AMENDED NOTICE.

New York, November 29, 1907.
PUBLIC NOTICE IS HEREBY GIVEN that the time for receiving applications for the position of GARDENER has been extended until 4 P. M., MONDAY, DECEMBER 30, 1907. The examination will be held on WEDNESDAY, JANUARY 22, 1908, at 10 A. M. The subjects and weights are Special, 6; Experience, 4. The provisions of clause 12 of Rule VII, to the effect that "no person who has entered any examination for appointment to a competitive position and failed therein or who has withdrawn therefrom, shall be admitted within nine months from the date of such examination to a new examination for the same position," is waived so far as it applies to this examination.

For further information apply to the Secretary.

F. A. SPENCER, Secretary.

WANTED—Two first-class commercial greenhouse assistants experienced in growing a general line of high class plants. Wages \$15 per week and room. Apply with references. Address Plants, care Horticulture.

SITUATIONS WANTED

SITUATION WANTED as working foreman on first-class place by sober, ambitious, young man with long experience on good wholesale and retail places. Good grower of roses, carnations, mums and general all-round stock. Familiar with greenhouse building, pipe fitting, both steam and hot water, capable of handling a large place. Steady position and good treatment expected. Not afraid of work. Married. References. State wages in first letter. If satisfactory would rent or buy place later. Address X. Y. Z., General Delivery, Bridgeport, Conn.

SITUATION WANTED—Single, temperate man of 27, with several years' greenhouse experience and some experience in store. H. H. Cade, Ridgely, Md.

FOR SALE

Suburban Florist Store FOR SALE CHEAP

Fine location for local trade; two years established. Fitted with ice chest, counters, etc., for immediate occupancy. A good chance for industrious party.

Address C Care Horticulture, Boston.

ange, N. J., early on the morning of December 9. Overheated pipes are supposed to have been the cause.

Hermann Thiemann has bought a place in Monson, Mass., and will grow dahlias, peonies, phloxes, irises, etc., for the wholesale trade. He is in the market for offers of choice stock and would like to receive catalogues from parties interested.

We have had the pleasure of seeing a bloom of M. H. Walsh's new H. T. rose Princess. It is almost identical in color with carnation Fair Maid and has a strong tea fragrance. The foliage is large and handsome and the stems 2-1/2 to 3 ft. in length. Mr. Walsh informs us that it is a free and constant bloomer.

Is Your Name In The Above List? If Not, Why Not?

PARK WORK IN A LARGE CITY.

The Uses of Public Grounds.

Perhaps one of the most important departments of civic administration, especially as related to the larger municipalities, is the department of parks and recreation centres. Parks have been the natural adjunct to the estates of nobility and of the wealthy classes since the time of Nero, but it has only been within the last century that the great value of public grounds has been felt to such an extent as to cause legislative bodies to take action in voting monies in large amounts for the acquisition and improvement of land for public purposes. The aesthetic value of artificially designed and well kept grounds has long been realized. Landscape gardening has for years been considered an art, and the profession of landscape architecture has long been recognized.

Public grounds were at first laid out merely for the benefit of the onlooker—an out-of-door picture, as it were—depicted on a canvas of nature, with trees, grass, water and slopes covered with verdant shrubbery as color matter, and all blended and arranged by a master-hand to best suit the requirements of the pre-acknowledged rules of art.

In landscape designing, there have been masters as in poetry and music. Kemp, Andre, Downing, Olmsted and Scott held similar positions in their professions as did Goldsmith, Tennyson and Burns, or Bach, Mendelssohn and Chopin in theirs. Central Park in New York or Prospect Park in Brooklyn bear the same marks of study and thought and masterly portrayal of nature, as do the celebrated landscape paintings in the galleries of Paris or Berlin. Today, however, the park movement has advanced in its requirements beyond the stage of mere artistic depiction, while in the larger naturalistic parks the same rules of landscape architecture are held to, and while the various schools of landscape design have their champions, all have tended to develop a more utilitarian, a more vital object. The great meadows of the city parks are flooded in winter, and the ice swept clear of snow at great expense that children and grown people may disport themselves. Toboggan slides are erected, and provision is made for popular sports in all seasons in such a way that the natural beauty of the ground is not sacrificed. Speedways are kept open, football, baseball, hockey, skating, tennis, horseback riding, golf, canoeing, boat racing—all are given their respective facilities. The use of the lawns is becoming in most cities unrestricted. Swings, merry-go-rounds and ponies are furnished for children, band concerts are fostered, and the whole machinery of the department is put in motion to give the public the most possible helpful pleasure.

What Chicago Is Doing.

In Chicago during the past few years nearly \$7,000,000 have been spent in neighborhood playgrounds. These playgrounds are from two to seventy

acres in extent, and contain a full equipment of buildings suitable for neighborhood recreation, besides lakes and expanses of lawn or grove which may appeal to the more quietly disposed. Full equipped gymnasiums are provided for each sex, both for outdoor and indoor work, shower baths, locker rooms, indoor and outdoor plunges and swimming pools, all have their corps of attendants and necessary accessories. In each park connected with the gymnasium is a building containing a library, reading room, restaurant, assembly hall and club room, all free of charge with the exception of the restaurant. The assembly hall is decorated from the park greenhouses twice a week, and is equipped with a piano, stage and all the things necessary to provide hospitality for clubs and social organizations. The assembly hall and club rooms may be obtained on application. In the restaurant, only wholesome foods are sold, and as near the cost price as possible. Pasteurized milk is furnished to families at a nominal sum, and the good result from this item alone is almost without estimate.

Chicago has already completed at an average cost of \$250,000 each, fourteen parks of this type, while a number of others are now in process of construction. Fifteen playgrounds of the smaller type, equipped only with outdoor gymnasiums, together with several municipal bathing beaches are also completed. Altogether Chicago has 96 parks and playgrounds, comprising approximately 3500 acres and costing annually \$5,000,000 to maintain, while nearly as much more is being spent annually in acquiring and improving new sites; yet with all this, Chicago has a reputation of lagging behind other cities of the country and Europe in its park work.

Plans for Future Extension.

Statistics show that there is an average of one acre to 6017 persons, while park authorities state that the proportion should be not less than one acre to every one hundred inhabitants. To correct this, plans are being formulated to carry out a work of park extension which will some day cause Chicago to become one of the finest equipped cities in the world. Money has already been provided and work begun on the extension of the shore parks of both the North and South sides. Lincoln park is adding 235 acres to her domain by filling in along the shore of Lake Michigan. Grant Park with an area of 210 acres is nearing completion, and the work of reclaiming the shallows along the Hyde Park district from Jackson to Grant Park is being planned. With the completion of this work the city will command, through its park department, the greater portion of the Lake frontage of Chicago, giving to the inhabitants a vast area of protected water for the use of aquatic sports, while the hitherto unestimated scenic features of the Lake will be reclaimed.

Around the city to the north, west and south stretches a continuous area of picturesque country, taking in the valleys of the Chicago, Desplaines and Sag Rivers, and including the hills and valleys of Palos to the southwest. As was the case of the Blue Hill district in Boston, this beautiful region has

lain unthought of and unreclaimed while the money-mad city has been paying too little attention to civic beauty. In a report of the Municipal Park Commission presented to the City Council in 1894, recommendations were made to add 37,000 acres of this and other territory to the park system of the city. Although recent legislative action has for a time stopped the progress of the enterprise, yet it seems in a fair way to be carried out in the future. Although the project calls for the expenditure of millions of dollars, and years of time to complete the work, yet the benefits to be derived by the future inhabitants of the city will cause the effort and the expense to sink into insignificance.

M. H. WEST.

Chicago, November 6th, 1907.

APPRECIATING THE GARDENER.

One of the little things about the recent annual chrysanthemum show in the Berkeley Lyceum that doubtless escaped the notice of many was the pains that some of the rich exhibitors took to give all possible credit to their respective gardeners. Thus, after the name of Mr. Robert W. Paterson, whose exhibits were sent down from "Blantyre," his Lenox country place, you always saw on the card, "Thos. Proctor, gardener." Mr. Paterson, whose wife was Miss Louise Fahys, is one of the leading chrysanthemum fanciers among the wealthy. Although he foots the bills for this expensive pastime he knows full well that for whatever success he attains to as a prizewinner, and that success is considerable, his gardener ought to have a proper amount of credit.—Brooklyn Life.

GREENHOUSES BUILDING OR CONTEMPLATED.

Pascoag, R. I.—Wm. Doel, one house.
Cheshire, Conn.—C. H. Ives, one house.
Pierre, S. D.—Enoe & Barney, house 20 x 90.
Woburn, Mass.—Adam Foster, two houses.
Bar Harbor, Me.—Mr. Kennedy, conservatory.
Hudson, Mich.—R. Peterson, range of houses.
Newport, R. I.—W. D. Leeds, range of houses.
Henderson, Ky.—J. C. Hoffman, house 16 x 75.
Fostoria, O.—Fostoria Floral Co., range of houses.
Jamestown, N. H.—Charles Adams, vegetable house.
Mangum, Okla.—A. Gardiner, two houses, 16 x 125.
Johnstown, Pa.—A. Hostetter, vegetable house, 31 x 143.
Swansea, Mass.—N. G. Chace, vegetable house, 22 x 50.
Monson, Mass.—H. Thiemann, propagating house 9 1-2 x 45.
Krings, Pa.—Mishler Bros., two lettuce houses, each 32 x 100.

NEW HEATING APPARATUS.

H. C. Sturges, Fairfield, Conn., new boiler.
Enoe & Barney, Pierre, S. D., Kroeschell boiler.

Tobacco Paper

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**STRONGEST,
BEST PACKED,
EASIEST APPLIED.**

24 sheets.....	\$ 0.75
144 sheets.....	3.50
288 sheets.....	6.50
1728 sheets.....	35.10

"NICO-FUME" LIQUID

OVER 40% NICOTINE

By far the
CHEAPEST.

**Furnishes the
Most Nicotine for the Money!**

JUST NOTE PRICES!

Pint.....	\$ 1.50
½ Gallon.....	5.50
Gallon.....	10.50
5 Gallons.....	47.25

... Manufactured by ...

THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

WILSON'S PLANT OIL

If you want to make money there is only one way. That is to have clean stock and the only way to get it is by using WILSON'S PLANT OIL.

New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
Yours very truly,
GEO. A. SKENE.

Florham Farms, Madison, N. J., December 8, 1906.
Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
Yours truly,
A. HERRINGTON.

PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

ANDREW WILSON, Dept. 8,

SUMMIT, N. J.

Selling Agents for New England, R. & J. FARQUHAR & CO., 6 and 7 South Market St., Boston, Mass.

LIST OF PATENTS.

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- 872,363. Seed Planter. Daniel H. McGuire, Wharton, Texas.
- 872,386. Attachment for Harrow Teeth. William B. St. John, New Edinburg, Ark.
- 872,443. Cultivator. Thomas L. McDonald, Luella, Texas.
- 872,542. Attachment for Planters. Alva, Sherman, Howard, Kans.
- 872,546. Harrow Attachment. Joseph Stickley, Lake Andes, S. D.
- 872,553. Fertilizer Distributer. John M. Bishop, Huntsville, Ala.
- 872,562. Revolving Harrow. James T. Hibler, Del Norte, Colo.
- 872,575. Cultivator. John W. Nilsson, Balfour, N. D.
- 872,814. Combined Planter and Fertilizer. William W. Harris, Spartanburg, S. C.
- 872,834. Plow Attachment. Charles I. Mattingly, Uniontown, Ky.
- 872,957. Harrow. Diederich P. Mohr and John A. Duvanel, Mackinaw, Ill.

NIKOTEEN APHIS PUNK
THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM
NIKOTEEN
LIQUID
FOR SPRAYING OR VAPORIZING
NICOTINE MFG. CO. ST. LOUIS, MO.

The FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 28,000,000 sq. ft. of glass. For particulars address John G. Esler, Sec'y, Saddle River, N. J.



"SCALECIDE"



SAVE YOUR TREES THIS FALL DON'T WAIT TILL SPRING



The chances are they'll be killed by San Jose Scale. Take time by the forelock—spray with **SCALECIDE**. It kills every insect it touches. Cheaper than Lime-Sulphur or any home-made mixture, and easier to apply. Non-corrosive, non-clogging. 92 percent oil—the largest amount with less water than is found in any spray yet discovered. We prove it. Order a 50-gallon barrel at \$25. Makes 800 or 1000 gallons costing 25c to 30c at any station in the U. S. east of Mississippi and north of Ohio River. There's nothing cheaper. Send now for free, special booklet.

B. G. PRATT CO., Mfg. Chemists,
11 Broadway, New York City



I MANUFACTURE AND ERECT

Iron frame and wood Greenhouses of every type for commercial and private use. If you contemplate building, allow me to submit sketch and estimate covering your requirements.

JOHN A. PAYNE,
Horticultural Architect and Builder.

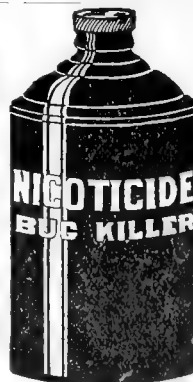
Main Office and Factory:
260-274 Culver Ave., Jersey City, N. J.
Sash opening apparatus and all kinds of greenhouse structural material.



Cattle Manure In Bags

Shredded or Pulverized
Best and safest manure for florists and greenhouse use, absolutely pure, no waste, no danger. Write for circulars and prices.

The Pulverized Manure Co.,
31 Union Stock Yards, Chicago



**The Best
Bug Killer and
Bloom Saver**

For PROOF
Write to

P. R. Palethorpe Co.
OWENSBORO, KY.

CARMAN'S ANTIPEST

For the Garden, Orchard and Greenhouse.

Non-poisonous and harmless to vegetation. Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests, and keeps down filth. Circulars on application \$1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,
FLUSHING, N. Y.

Eastern Agents:
W. W. RAWSON & CO., 5 Union St. Boston, Mass.

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STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 3 1/2 " " " 5.25	60 8 " " " 3.00
1500 3 3/4 " " " 6.00	
1000 3 " " " 5.00	HAND MADE
800 3 3/4 " " " 5.80	48 9 in. pots in crate \$3.60
300 4 " " " 4.50	48 10 " " " 4.80
320 5 " " " 4.51	24 11 " " " 3.60
144 6 " " " 3.16	24 12 " " " 4.80
	12 14 " " " 4.80
	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of
Cylinders for Cut flowers, Hanging Baskets, Lawn
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Hilfinger Bros., Pottery, Fort Edward, N.Y.
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W. H. ERNEST,

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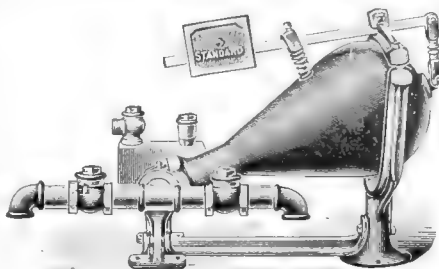
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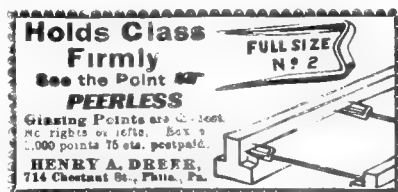
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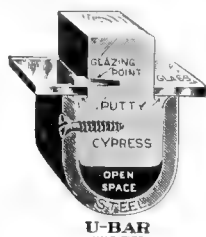
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HERE the U-Bar is in its parts—the the wooden core—and the steel encasing. The core is first chemically treated against decay and then firmly

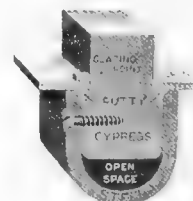
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Galvanized steel U-Bar. Every two feet it is screwed to core.



Cypress core which is chemically treated against decay.



The roof bar rafter U-Bar complete. This is half size.

HORTICULTURE

Vol VI. DECEMBER 28, 1907 No. 26



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Lilium Philippinense X *longitubum*

Devoted to the
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We have splendid stock of strong rooted cuttings ready for immediate delivery. In order to get the best results from Winsor, it should be planted early. Now is the time to get gilt-edged stock. We have a splendid lot of cuttings ready for immediate delivery, and can also furnish strong established plants from two and one-quarter inch pots, fall propagation.

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FOR 1908 DELIVERY

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**Cattleya Trianae (new district).
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2¼ in., \$5.00 per 100

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Both standard varieties and novelties. Stock guaranteed to be first-class. Address,

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Imperial variegated	Per 100	Per 1000	
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Place your orders early for Dec. delivery.			

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All the best varieties in separate colors

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the best strain from all the leading named sorts

1-8 oz. 75c. 1-4 oz. \$1.50 Ounce \$5.00

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Farquhar's Giant Strain

Unsurpassed for size of flowers.

Giant Crimson Giant Pink
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100 seeds, \$1.25; 1000 seeds, \$10.00.

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LARGE SHIPMENT OF
High-Grade SCOTCH SOOT.

We have the Stott Double Nozzle
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TOUGH AND STRONG

6 ft. long—\$1 per 100; \$6
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Cover your Cold Frames with HOT BED MATS

Made of burlaps, thickly quilted with jute making a serviceable warm mat. 76 x 76 inches, will cover two frames.

\$1.25 each. \$14.00 per doz.

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	Trade Pkt.	Per Oz.
Begonia Vernon	50c	\$2.00
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Cyclamen Giganteum in colors, per 1000 seeds.....		\$4.00
Lobelia Crystal Palace Comp.25	1.25
Lignonette New York Market .....	.50	5.00
Myosotis Victoria .....	.10	.50
Salvia Splendens Grandiflora .....	.25	1.00
Salvia Splendens Bonfire .....	.50	2.50
Stock Boston Market in colors50	5.00
Verbena Mammoth mixed25	1.00
Vinca Rosea and Alba10	.40

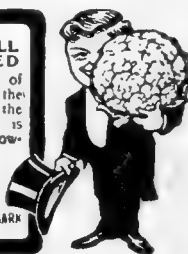
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No. 34 is the earliest of all Snowballs, the most compact, the surest header, is giving the largest and snow-white heads, and is the best keeper in dry-weather. Demand it through your seed-firm or direct from

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100 seeds \$1; 1000 seeds \$9.

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Cyclamen

Superb English Strain
Second to none in size
of flowers
Giant Crimson.
" Pink
" White
" White with
Claret base.
" Mauve.
" Salmon Queen.
" New Fringed.

Burpee's Seeds

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Blue List of Wholesale Prices mailed
only to those who plant for profit.

Anything of Value

to the profession

CAN BE SOLD

through advertising in

Horticulture

Shall You "Go West"?

The eastern farmer is, as a rule, very envious of the western rancher. He hears reports of the vast farms, fine fields, great herds, innumerable flocks and record crops of fruit and grain. But a man wants to think well before he pulls up stakes and starts West.

In the first place the eastern grower has a market. Numberless towns and cities furnish opportunities for the disposal of his crops, generally right at his door. He can raise a small quantity of some fruit or vegetable for which there is a demand with an outlay of little capital and then get it to market with hardly any expense for freight and so forth. The West has very poor markets as a rule. Only the large cities are to be depended upon. Being an agricultural country each house has its little garden plot and keeps its own hens so that only a limited market is created. If the farmer's products are shipped to the cities he has high freight or express charges, and must pay the various items of spoiling, icing, storing, commissions, etc., which make a big inroad on his profits. And when his market is finally reached he finds himself in a com-



A Typical California Agricultural Town.

wastes valuable effort on at home. If he gets into a fruit country it must be grapes, peaches, prunes, pears or the particular crops for which the land and section is suited. If in an agricultural region it must be horses, cattle, sheep, grass or grain and nothing else. Of course there are lots of examples of men who are earning a comfortable living from a few acres of raisins, olives, figs, oranges, almonds and the like, but the men are those familiar with the country, who have gained their comfortable places through persistent effort aided by a knowledge of the field.

The second thing the rancher has to contend with is the labor problem. If this is serious in the East it is ten times more so in the West. There is such a lack of good men that various organizations have been formed with the express purpose of exploiting the country and getting more men. Mexicans, Indians, Japs and Chinamen are fairly good cheap labor but there is a dearth of them. In this connection I may say that for the anxious worker, whether or not conversant with farm life, who is willing to start in under somebody and work up, there are plenty of good chances. Foremen and superintendents are scarce articles. It is well to have a place in view, however, before starting in on any very extended journey.

But after all is said and done the West is a great country. When one has obtained a foothold the soil and climate in the favored sections make life well worth the living.

I am aware of the discontent of the easterner. The vivid pictures of western life have made him restless and he longs to start for "the land of the setting sun."



Typical California Ranch Buildings.

petition with specialists who can turn out a fine product at a minimum cost. For instance, in California the city of San Francisco is the distributing point for the whole State (perhaps somewhat less so since the fire) and the bulk of the ranch products are shipped there to be redistributed over the whole country. It sometimes happens that a roll of butter or a dozen of eggs will leave a town, go to 'Frisco and be shipped right back again for local consumption, from some commission house. And in "the city" are A No. 1 things, grown by successful men on the best soil. These the small farmer must come in competition with.

This doesn't mean that there is a lack of opportunities. There is an unlimited field for the man with capital, but to be successful he must spell his money with capitals. In a land where there are ranches of sixty thousand acres, quite a number of twenty thousand and a host of two or three thousand each, all turning out vast crops, the little man is likely to get snowed under. The only plan for the easterner to follow out West is to grow one crop and grow it well. He cannot afford to spend time and money on the dozens of schemes he



A California Residence.

I don't blame him. It is a grand country; a noble, upright, open-hearted clean-cut people inhabit it, whose motto is: Everyone for himself and a chance for the other fellow. Still, all sides of the question must be considered by the man who has anyone dependent on him. Better come out for a year on a visit before making it permanent. There are too many examples now of men who have sold out everything, have come West, and then returned home again bitterly disappointed, with their brightest dreams shattered—a desolation incomparable.

R. Z. Adams.

Water Soluble Fertilizers

Three of the more commonly used and best known of the simple soluble fertilizers are Nitrate of Soda, Sulphate of Ammonia, and Sulphate of Potash. The first two are a source of that most expensive element Nitrogen and the last gives Potash. All three are generally cataloged by seed houses and are frequently analysed by the State Experiment Stations. Almost every reader of HORTICULTURE is somewhat familiar with them.

The following figures are based on Massachusetts reports of which we have tried to strike a fair average.

It is to be remarked here that the use of the term "Nitrogen" (abbreviated to "N.") is simpler in many ways and is to be preferred to the term "Ammonia." To be sure the valuation of a fertilizer carrying nitrogen looks larger when calculated as "Ammonia" but that is all. For example, had a fertilizer 17 per cent calculated as "Ammonia," it would have just 14 per cent calculated as "Nitrogen." It is like the case of the Frenchman with his five francs and the poor American with only four quarters. If five francs or four quarters were worth one dollar on the spot who was the richer? So we will calculate all nitrogenous bearing substances as N.

We will consider for this article that Nitrate of Soda has 15 per cent N., Sulphate of Ammonia as 20 per cent N., and the sulphate of Potash has 50 per cent Potash, calculated in the usual way. Now these must be the high grade commercial chemicals to carry these amounts, and, while no doubt some on the market today may have more, as we have said above we are trying to strike a fair average.

A strength of soluble fertilizer often mentioned and also a convenient, round and practical figure, as a barrel usually holds fifty gallons, is one pound to a hundred gallons of water. This also means, as one gallon of fresh water weighs 8.31 lbs., one part by weight to 831 parts.

Using Nitrate of Soda at the pound per 100-gallons rate we have N. present in the water in the proportion of one part to 5,500, N. in Ammonia Sulphate solution would be one in 4,200 and the Potash in the Sulphate of Potash one to 1,700. These are round but not distorted figures.

The writer wishes to impress the reader if he has not already thought of it with the small amounts of fertilizer the above amounts seem, and also with the fact that same amounts are really high if compared with the use of the old English formula as indicated in the table below. This is an orchid mixture of chemicals which has been very useful and does not have any of the above mentioned chemicals in it.

Chemical.	Except Cookson's, 1 pound to 100 gallons water.	
	Gives N.	Gives Potash.
Nitrate of soda (N. say 15 per cent.).	one part in	5,500
Sulphate of Ammonia (N. say 20 per cent.)	one part in	4,200
Sulphate of Potash (Potash say 50 per cent.)		one part in 1,700
Cookson's formula, (say 98 per cent. pure) as used by its author.....	one part in 80,000	one part in 40,000

Cookson's Formula has been mentioned here because it is one of the best known of the survivors of chemical mixtures of which there used to be many. In water culture there were also many mixtures and today, in similar lines of work, mixtures are made with just as little in them as the above formula.

The plant can take up the good from weak solutions just as well as it can from stronger ones and note that in Nature it has to put up with rather slim broths.

Rudley M. Pray.

Lilium [Philippinense x longiflorum

(See Frontispiece)

This new variety first exhibited before the Gardeners' and Florists' Club of Boston, December 17, 1907, was raised by R. & J. Farquhar & Co, of Boston. The plant exhibited in bloom was produced from seeds sown February 17, 1907. It has to a large degree the erect wiry stem of Lilium Philippinense, the foliage being intermediate between the two parents and a decided improvement in this respect upon Philippinense, while it has the herbaceous habit of that variety in throwing up shoots from the bulb after the first shoot shows bloom. The flower is of the same glistening white appearance, and has the long, slender Philippinense tube, widely flaring at the mouth.

British Horticulture

THE POPULARITY OF THE SWEET PEA

A proof of the continuous increase in the popularity of the sweet pea is afforded by the success attained by the National Society watching over its interests. At the recent annual meeting the committee reported that the Reading trials, the Floral Committee's work and the new affiliation scheme have all been eminently successful. There has been a steady increase in the membership whilst financially the Society is in a sound condition. A new "Year Book" is in course of preparation. Amongst the American supporters of the Society are Messrs. W. Atlee Burpee & Co. of Philadelphia, and Messrs. C. C. Morse & Co., Santa Clara, California. Mr. Cuthbertson is anxious to see a closer union between American and British growers, for he advocated an American membership with a dollar subscription. The work of the National Society is now to be supplemented by a new organization, the Midland Counties Sweet Pea Society. The promoters intend holding a show in one of the chief towns in the Midlands each year, the first to be held in Wolverhampton on July 29, 1908.

THE POTATO SLUMP

Although the sweet pea society is enlarging its sphere of work, another of the newer horticultural organizations has just wound up its affairs. After a career of about four years the National Potato Society has been dissolved with the view of further steps being taken, if possible, to found a society which will include all vegetables within the scope of its operations. The Society came into existence at the time of the "boom," when certain new varieties of potatoes were sold at fabulous prices. The market was then flooded with alleged new varieties—some of these were old friends under a new name. At this time there was no difficulty in getting a strong trade section at the Society's shows. At the two last shows there has been a decline in the trade interest, and with the limited balance available the committee did not feel justified in embarking on the uncertainties of another show. It is a great pity that the Society has collapsed for there is plenty of scope for its operations in safeguarding the interests of the trade growers, conducting trials, and testing and certifying new varieties. The difficulty apparently was to secure a harmonious working between the trade section and those more concerned in private gardens.

THE CARNATION SHOW

The third annual show of the National Winter Flowering Carnation Society held on December 11th, was a decided advance as regards number of entries and quality of exhibits compared with the Society's previous efforts. The Guernsey specialists were well represented, and loomed largely in the prize list. Mr. H. Burnett, of Guernsey, who has raised several popular varieties, secured a large gold medal of the Royal Botanic Society from an admirable group in which some

meritorious seedlings were included. Creditable groups were arranged by the leading trade growers.

W. H. Adsett.

The White Fly in California

The discovery of the dreaded White Fly in California last summer has caused the planning of a campaign somewhat similar to that in New England against the gipsy and browntail moths, only on a much smaller scale. First found in Marysville, a vigorous search has since been made over the State with the result that the most feared of all Florida's citrus fruit pests has been located in Marysville, Oroville, and Bakersville—three prominent points for further dissemination of the insect. At all these points are well established colonies. Besides these three there are doubtless other places where the flies occur, at least in small numbers. The danger of one insect spreading is very minute, but when abundant, spreading seems inevitable. During the past year much has been done to reduce the numbers. County horticultural commissions, the State and the Experiment Station all united to control as far as possible this serious menace to the citrus fruit industry of the Pacific coast.

The Oroville situation presents three interesting features. They are probably an off-shoot from the Marysville colony, they were doubtless carried by the electric cars and they are thriving in a humid climate, an environment where it was believed they could not exist. The pest is here to stay and a continual fight will have to be waged against it, for it is the worst citrus pest we have. In Florida it causes more damage than all the others put together.

The aim will be to eradicate the colony at Bakersville, as it is altogether too near the great citrus belt. To this will be added the subduing of dangerous colonies by fumigation and defoliation of the trees, not for the benefit of the community where they exist but for the whole State. For this reason the cost should, and probably will, be borne by the State, especially as the policy must be laid out with the greatest aid to the greatest number.

Economic control consists in fumigating. Two things must be considered. One is to give the tree a rest after fumigating and the other is to prevent smutting of the fruit. Just what the next campaign will be is not yet known. But the vigorous start will be continued although doubtless with some modifications as to the concentration of authority and the extent to which inspectors can go. The principal fact is that the White Fly must now be added to the list of dangerous pests in California and the citrus growers must prepare themselves for a long, hard, up-hill fight against this most destructive insect.

R. L. ADAMS.

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which appears in this issue. How pregnant it is with appreciation of the beautiful and sublime in nature and how felicitous the appeal to the plodding farmer to open his eyes to the enjoyment to be found in flowers, fruit and verdure, beyond the providing for the bare necessities of living. The more this spirit is disseminated, not alone among farmers, but among people in all walks of life the more will horticulture flourish. There should be a Harrison in every community.

The seedman's position

The recent jury decision after a trial lasting two weeks sustaining the validity of the disclaimer of responsibility printed on the seed packages of a Baltimore seed house will be hailed with much satisfaction by the seed trade generally and it will not be questioned that the \$5,000 which the suit is said to have cost was well expended in thus affirming the legality of the disclaimer in general use. At the same time the interests of the farmers and other seed consumers are not being neglected and the advocates of seed inspection are busy in many States. No reputable seed dealer will interpose objection to any just law framed to prevent dishonesty in the sale of seed but purity and vitality, like all other good things, cost money and the man who buys low-priced seed in preference to paying for the best, as well as the man who doesn't take proper care of his seed after he has got it, can hardly have any claim on the government to step in and protect him against the consequences of his own free acts.

Making progress

With this issue ends volume six of HORTICULTURE. At the close of the year one is inclined to be reminiscent. We do not propose, however, to impose upon our readers any chronological account of the events, agreeable or otherwise, which have transpired during the year which has passed. The index to HORTICULTURE's contents which is sent out with the number following the close of each volume will be found to contain about everything worthy of permanent record. Notwithstanding the somewhat discouraging financial aspects of the final months of the year we believe 1907 may fairly be recorded as a success floriculturally as it certainly can agriculturally. Progress has been made in the science and art of the horticulturist and, on the whole, the profession has attained wisdom and advanced position. To be sure there have been repeated evidences that perfection is still in the dim distance; the florist who imagines he is helping his business by dispensing yarns to the newspapers about flowers soaring high for the holidays is still at it, the man who has "made a study of mixing seeds" has cropped up again with a blue carnation for which he has refused "a large amount of money" and sad to relate, our esteemed contemporary so erudite on matters botanical, has a "plight" in erica nomenclature on its hands, but these little lapses are unavoidable in human affairs and as the "campaign of education" goes on let us hope that they will become fewer and fewer.

Nothing that passes under our editorial eye gives us greater pleasure in the reading or keener delight in the passing on to HORTICULTURE's readers than the elegant compositions of that grand old man of Nebraska horticulture, Rev C. S. Harrison, which from time to time come to our hands. We commend to our readers' especial attention the paper from Mr. Harrison's pen

NORTHAMPTON, MASS.

Rural Progress in Eighty Years.

By Christopher Clark, City Forester.

Northampton has in the period of eighty years changed from a beautiful country town, with a population of less than 4,000, almost entirely of American birth, to a busy, cosmopolitan and educational city of 20,000, with all the modern improvements, including many things that were not known or invented for many years after I was born. It is quite true that rural progress was quite fully developed in Northampton when I was a boy by its leading and distinguished citizens. Especially after the Revolutionary War and for nearly a century many of her citizens were distinguished for general intelligence and cultivation, and a large number were college graduates. The yards connected with the residences of the people of ample means were provided with fine, well-built, expensive fences, and had beautiful gardens with all the flowers and shrubs of that period, and the borders of the front yards and garden walks were most beautifully arranged and filled with rose, lilac, syringa and other flowering bushes, and the yards, gardens and orchards had plenty of peach, pear, plum, cherry and apricot trees that flourished without any of the many enemies that now seem to multiply so greatly that their cultivation is quite discouraging. All the residences were fenced in, because the cows were allowed to graze in the streets, and in the autumn after the crops were harvested the meadows were thrown open for cattle and cows to feed, the entrances to the meadows being guarded by gates, the principal meadow gate being at the foot of Pleasant Street, just above the present railroad bridge.

The village life of Northampton in those days was the perfection of rural New England life, its leading citizens comprising United States senators, governors, judges and literary men. Among them was Governor Caleb Strong, his son Lewis Strong, Major Joseph Hawley, United States senator; Isaac C. Bates, Senator Ashman, George Bancroft, the historian; Joseph Cogswell, for many years the librarian of the Astor Library in New York; Judge Howe, then at the head of a law school in this place; Judge C. A. Dewey, Judge Chas. E. Forbes, Judge Lyman and many other distinguished men of that period, who lived here and gave tone and character to the society of the town for a long period.

The early settlers of Northampton, like those of all the Connecticut River towns, had the love of trees that came from their ancestors of old England, and the beautiful elm trees in all the Connecticut Valley towns, with the broad Common, or Mall as it was then called in England, were established in the center of the villages, notably that in West Street, Old Hadley, which is probably the widest street in this country. The Common and the planting of elm trees was a distinguishing feature of all the Connecticut and Massachusetts towns where the English people settled, but in no place or section did

the American elm grow so rapidly and beautiful as in the Connecticut River Valley, from Wethersfield and Hartford, Conn., to Northfield, Mass., and Keene, N. H. And many of these trees are now nearly 100 feet in height.

Northampton people have always cultivated fruit trees, and soon after 1850 the citizens organized a Horticultural Society which did good service. It was followed by one of the first Village Improvement Societies that was organized in this State, and soon after the Laurel Hill Village Improvement Society of Stockbridge, Mass., which was the first one organized in this country. The Northampton Village Improvement Society did good work until the present city government was organized, when its special work was given to a City Improvement Committee which is practically a park commission and still exists.

The village of Florence in the sixth ward of the city of Northampton, has a very active and efficient Village Improvement Society which has made its influence felt throughout the western portion of the city, who have made it one of the most beautiful villages in the state.

The Home Culture Clubs of Northampton, originated by George W. Cable, have under the able management of the officers established a competition for flower garden development through liberal prizes, that has resulted in adding many hundred flower gardens throughout the city mainly connected with the houses of citizens of very moderate means, which has already accomplished a general and very beautiful improvement of the city. This flower garden competition is a novel idea, and should become a part of Village Improvement Society work throughout the country.

As City Forester, I have accomplished much during 23 years' service, in tree protection, by the filling with cement the decayed portions of large trees, and in this way have saved some of the most beautiful and historic trees in this section of the state that otherwise would have had to be cut down. I have already filled single trees with 20 barrels of cement which have since thrown out new branches, and will now live many years.

My experience and observation has taught me that there should be a far greater variety of trees planted on our city and town streets, and I close this review by asking all city foresters and tree wardens who may read this paper to aid in this way in making our cities and towns far more beautiful in the near future.

A GREAT VIOLET.

Wm. Sim has sent to our office a bunch of his new single violet "Boston." We have measured the flowers and find them to average from one and a half to one and three quarters of an inch across, the stems ten inches long, and leaves three to three and a half inches across. By this it will be seen that Boston is a pretty sturdy variety. The petals are very broad, giving the flower the form of a good pansy. Color is somewhat lighter than that of Princess of Wales, but the fragrance is superior, as are also the keeping qualities, and it is an exceptionally good shipper on this account.

M. GEORGE SCHNEIDER.

The popularity of this distinguished French horticulturist resident in England for nearly forty years may well be gauged by the festivities recently held in England and France to celebrate his recent decoration by the French Government. On November 2 at a meeting of the French Gardeners' Society of London a punch d'honneur was given in his honor. Mr. Schneider has been president of the Society ever since its foundation 19 years ago, and the members presented him with the cross of the order set in diamonds. On November 9th there was a brilliant gathering in Paris at the Restaurant Ledoyen. M. Albert Truffant occupied the chair surrounded by the elite of French horticulture. A magnificent present was then made to Mr. Schneider consisting of a Sevres biscuit clock, a pair of vases and candelabra, subscribed for by 184 friends whose names were all inscribed in an album which accompanied the present. Of those 25 were Belgians, 10 English, 1 Italian and the remainder were French.

A meeting of the English friends was held at the Cafe Royal London on the 16th November when Mr. Harman Payne presided. A silver hot water jug and a silver cake basket were then presented to Mr. Schneider who may well feel proud of the spontaneous and friendly testimony of his numerous admirers on both sides of the Channel. Among his other titles to recognition it should be mentioned that he is the author of a very handsome work entitled "The book of Choice Ferns," in several volumes. C. H. P.

ROSE VERSUS CARNATION.

Mr. E. G. Hill, in his remarks before the Chicago Florists' Club, which we printed last week, in speaking of the recent activity in the production of new varieties of roses, said that "it is well for the rose that such is the case, else the carnation would have continued its triumphal march to the point of disputing leadership with the rose." This is in line with what seems to be a widespread notion that it is only within the past few years that the carnation has been regarded as competing with the rose for pre-eminence in the popular favor. It would appear, however, that this conception lacks foundation, for in Goode's Family Flora, a book published at Elizabethtown, N. J., in 1847 the rose is referred to as a "rival" of the carnation. Mention is made that at that date over four hundred sorts of carnations were enumerated by florists.

TO THE TRADE.

It is well known that Horticulture has opened up interest on new lines and created a live circulation among the substantial growers and consumers in the horticultural profession, people who take an interest in and will answer advertisements. If you have anything to sell to such people these columns will carry your offer to them at a very small cost. Try it for the coming year and you'll get there.

NEWS OF THE CLUBS AND SOCIETIES.

TORONTO GARDENERS' AND FLORISTS' ASSOCIATION.

Regular meeting of the above association was held on Dec. 17, the newly-elected president W. A. Houle in the chair, a large number of members being present. It was voted to send a letter of condolence to the widow of the late Geo. Vair whose sudden death took place last week. The sorrow and sympathy of all the members was expressed by the mover, Thomas Manton, who said the association has lost a member and true friend whose sterling character and late practical ability will long remain in the memory of those who knew him.

The following officers were elected for the coming year: President, M. A. Houle; first vice, E. Graham; second vice, J. Mathew; treas., Geo. Mills; secretary, E. F. Collins; assistant secretary, Colin Nesbit; executive committee, T. Manton, Geo. Douglas, W. Jay, W. H. Fould, W. Wilshire, W. H. Wright, F. Adam. The treasurer's report was read and showed the association to be in a sound financial condition. The secretary's report showed a membership roll of 102 in good standing, 19 members having been elected during the past year, and urged the members to push forward some scheme whereby the association may gain more influence in matters relating to horticulture in the city. The secretary read a letter received from the mayor of the city of Toronto, expressing his pleasure at being able to lay before the council the resolution of confidence in Park Commissioner John Chambers which had been sent from the association.

A program for meetings during the closing year was discussed and one plan which was adopted will be for every member to bring to the meeting some production of his own growing, when points will be awarded, and totalled up at the end of the year, when a gold medal will be presented to the exhibitor gaining the highest number. Geo. Mills kindly consented to defray half of the cost of the medal.

Thos. Manton exhibited a fine plant of *Moschasma riparium*, whose fine appearance and excellent qualities were freely commented upon as making a most desirable decorative plant for all purposes. By a unanimous vote Mr. Manton was awarded a certificate of merit, it being the first specimen of this plant exhibited in this city.

E. F. COLLINS, Secretary.

NEW ORLEANS HORTICULTURAL SOCIETY.

Regular meeting of the above named society was held Thursday, Dec. 19th. The following members were appointed on the finance committee for the en-

suing year: Messrs. Paul Abele, Richard Eichling, and R. Lockerbie.

A general discussion on the advisability of giving a chrysanthemum show then took place and it was ordered that the secretary should communicate with the New Orleans Ladies' Floral Society to see what assistance they would render. Richard Eichling of the U. J. Virgin establishment exhibited narcissus and Roman hyacinths.

President Eble announced that his niece, Miss Carrie Eble was married on December 18. She had been in his employ for the past four years as his floral artist. Mr. Eble's store must be a lucky store for young ladies to work in, as this is the third of his employees that has been married since he has been in business. Miss Leon Marthe, a former employe, has taken the place of Miss C. Eble. Business, in spite of the depression of the money market, is up to the usual standard.

C. R. PANTER, Sec'y.

NORTH SHORE HORTICULTURAL SOCIETY.

The above society held its regular meeting, December 20th, Pres. McGregor in the chair. Mr. A. E. Parsons read a paper on carnations, covering the subject in a very able manner. Commencing with the propagating bench and the cutting Mr. Parsons took his audience through the successive stages of its growth, briefly referring to watering, ventilating, feeding and the various diseases and insect enemies which menace its existence and which the successful grower must overcome until he turned out the finished flower. Cutting and packing the blooms then followed. Mr. Parsons had on exhibition some superb blooms of Beacon, Enchantress and Lady Bountiful. James Salter followed the speaker with a few remarks on the same subject.

Mr. Parsons was awarded a certificate of merit for his carnations and a vote of thanks for his interesting and instructive paper.

Next meeting and election of officers January 3d, 1908.

CHICAGO FLORISTS' CLUB.

Resolved, by the Chicago Florists' Club:

In the death of Philip J. Hauswirth every florist in Chicago has lost a loyal friend and horticulture has lost one of the most devoted and ablest workers for its advancement.

With him the common good was always first; he was ever ready to sacrifice his own interests to work for the interests of all. If he had a fault, it was that in his generosity he sometimes sacrificed himself too much.

For time and ability given freely in aid of their common welfare, the florists of Chicago and of the whole country are indebted to him more than can ever be repaid.

As an acknowledgement of this debt, as a tribute to his character and as a token of the grief we feel at his sad death, these resolutions shall be engrossed and presented to his family.

J. C. VAUGHAN,
WILLIS N. RUDD,
FRANK F. BENTHEY,
Committee.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The inaugural meeting of the Massachusetts Horticultural Society for the year 1908 will be held at twelve o'clock, noon, on Saturday, January 4, at Horticultural Hall, Boston.

The business of the meeting will be the hearing of an inaugural address by the President, the report of the Board of Trustees, the reports of officers, and the reports of the chairmen of the various committees.

WILLIAM P. RICH, Secretary.

Boston Horticultural Lectures.

The Massachusetts Horticultural Society has issued its program of winter lectures on horticultural subjects which are to be given at Horticultural Hall, 300 Massachusetts Avenue, Boston, Saturday mornings at eleven o'clock, beginning January 4, 1908. The list is as follows:

January 11. The Concord Grape and Its Originator. By Wilfrid Wheeler, Concord.

January 18. Opportunities for Commercial Apple Growing in New England. By Prof. F. C. Sears, Amherst.

January 25. Annuals and Biennials. By Robert Cameron, Cambridge.

February 1. Treatment of Home Grounds. By Frederick Law Olmsted, Jr.

February 8. Vegetable Growing Under Glass. By William Turner, Oceanic, N. J.

February 15. Hardy Conifers for Private Grounds. By John Dunbar, Rochester, N. Y.

February 29. The Private Gardener. By Robert Craig, Philadelphia.

March 7. Agricultural Education in the Public Schools. By Pres. Kenyon L. Butterfield, Amherst.

March 14. Development of Disease Resistant Varieties of Plants. By Prof. H. S. Jackson, Newark, Del. (The John Lewis Russell Lecture.)

March 21. Spring Flower Show.

March 28. Conference on Grape Growing.

SOUTHAMPTON HORTICULTURAL SOCIETY.

The second bi-monthly meeting of this society was held Thursday, Dec. 19, President Clark in the chair. Among those present were some of the expert potato growers of this section. Walter L. Jagger, an expert on the subject of potato growing, read a very interesting paper. The next regular meeting will be held Thursday, Jan. 2, when officers will be elected for the ensuing year. U. G. AGER.

CLUB AND SOCIETY NOTES.

The twelfth annual smoker of the Morris County Gardeners' and Florists' Society will be held at Masonic Hall, Madison, N. J., on the evening of January 8.

At the annual meeting of the Illinois State Horticultural Society, held at Bloomington, December 13, officers were elected as follows: President R. O. Graham; vice-president, J. M. Tanner; secretary, W. B. Lloyd; treasurer, J. W. Stanton.

In connection with the Iowa Horticultural Society the Iowa Plant Breeders' Society has been organized and officers elected as follows: president, C. G. Patten, Charles City; vice-president, Professor Beach, Ames; secretary, Prof. Irwin, Ames. They will meet jointly every year with the parent society.

The Detroit Florist Club held a very well attended meeting last Wednesday discussing freely the proposition of an exhibition next February. Arguments led to other propositions, such as annual spring and fall exhibitions, and finally it was decided that Pres. Scribner should appoint a committee of one to make a recommendation to the club.

In an address delivered before the Springfield Florists' Club (Ohio), P. M. Cartmell offered \$100 to any block four hundred or more feet square now fenced in an established part of the city, which will entirely remove fences from its front lawns. It has been further suggested that if the owners of the block should appropriate the money for the planting of ornamental trees, the custom would become general throughout the city.

At the monthly meeting of the Rhode Island Horticultural Society on December 9, E. H. Burlingame gave an interesting account of a visit to the Maine Pomological Society, and said "There are many acres of land in this State, some of which are but a very short distance from this city, on which apple raising might be tried with success. There is money in raising apples if some of the farmers who devote their time to other things only knew it." An interesting discussion followed the address. The annual meeting will be held on January 15.

PERSONAL.

J. P. A. Guérineau, representing T. J. Grey of Boston, has returned from a very successful business trip to Newport, R. I.

George Wainwright of Trenton, N. J., a well known rose grower, has successfully undergone an operation which has restored his sight, of which he had been deprived for three years by cataracts. Mr. Wainwright is 82 years old, and the physicians were fearful of the effects of the operation.

TWO PRESIDENTS.



W. JACK
President-elect Lenox Horticultural Society.

In our issue of last week part of the edition went out with the portrait



PERCY HERBERT
President-elect Morris Co. Gardeners' and Florists' Society.

of one of the gentlemen whose pictures appear herewith wrongly named. We have got them right this time.

WINTER FLOWERING CARNATION SOCIETY.

The above-named society held its third annual show in the Royal Botanic Gardens, Regent's Park, London, on Dec. 11. There was a large number of competitive classes, with prizes varying from 50 cents to \$10.00, according to the requirements. In Class 1, Mr. W. H. Page was first for a table, 10 ft. by 4 ft. of carnations, arranged in vases. Among his flowers were fine clusters effectively set up of Mrs. T. W. Lawson, Beacon, My Maryland, Melody, Gov. Roosevelt, White Mrs. Lawson, Lady Bountiful, White Perfection, Helen Gould, etc.

The second prize winner in this important class was Mrs. Mortimer, who staged a fine collection, which included among others Victory, Fair Maid, Jessica, Adonis, Nelson Fisher, Rose Pink Enchantress and others. There were seven classes for 36 blooms of any variety according to color thus: White, blush, light pink or salmon, deep pink or rose, crimson, scarlet, any other color or fancy. Then similar classes for 18 blooms in the same colors. In most of these classes there was good competition and we need only refer briefly to the flowers chiefly shown which, besides these above mentioned, include President, Harlowarden, Britannia, Robt Craig, White Enchantress, My Maryland, Enchantress, Imperial, Mikado, Winsor, Fair Maid, Royalty, Floriana. Vases of carnations, bouquets, sprays and buttonholes were also provided and many interesting exhibits were staged. Class 26 was for the best collection on a table space 8 ft. by 4 ft. Sir R. Baker was the winner of the first prize with a fine lot set up in glass vases.

Classes for plants in bloom were also provided, but in these the competition was less severe. The remaining classes in the competitive section were for three blooms in the various colors as already indicated in the bigger classes and these were well filled.

Among the miscellaneous exhibits we must record that set up by Mr. H. Burnett, who, on a long table, arranged a fine and varied display of cut blooms in large clusters. Marmion, Sensation, Aurora, Jessica, Ajax, Lieut. Peary. The President and others, were in fine form. G. Lange had another fine lot, and was awarded a silver gilt medal. A gold medal was awarded to Bell & Sheldon, who had an artistically arranged display mingled with ferns, smilax, etc. To John Peed & Son a large silver medal was awarded for a nice collection. C. Englemann staged a group on the ground level more in the Continental style than any of the preceding. There was a great variety shown in this collection, and among them were several not shown by other exhibitors. Mabelle, Aristocrat, Pink Imperial, Red Lawson, Queen Louise, Victory and John E. Haines were some of them.

A large silver gilt medal fell to the lot exhibited by Hugh Low & Co. This exhibit was about 40 feet long and contained many choice varieties daintily set up in tall bamboo stands and vases. Britannia, Enchantress, Mrs. Burnett, Flamingo, White Perfection, Helen M. Gould, were grand. Other noteworthy flowers were Mauviand, Floriana, Oriflamme, Beacon and Rose Pink Enchantress for the last two of which first-class certificates were awarded. Mr. Dutton of Iver, Bucks, received two first-class certificates for Melody and Winsor.

ORNAMENTALS.

A paper prepared for the Nebraska Horticultural Society, by C. S. Harrison, York, Neb.

God loves the ornamental, for He has given the world and the whole universe so much of it. Infinite skill, art and taste have been lavished on our grand old earth. It swings through the heavens like a bride adorned with a wealth of grandeur and beauty. He paints on the gates of the morning those dissolving tints which vanish into light. At evening, moving mountains of earth's choicest gems in their mingled beauty escort the retiring day. How glorious the night when the great dome, frescoed with blue, is sprinkled with stars, making a scene so resplendent it touches the soul, giving a divine awaking and enlargement—showing that it is related to the infinite. What august sublimity crowns the mountain—the coronal of white upon the hoary brow, the play of shadow and light, the blue above where float the fleecy clouds, all give us inspiration. When you let God alone and do not mar His works, what a beautiful land he gives us.

Before the white man touched our shores, He spread out a panorama of resplendent loveliness. There were vast forests of majestic trees, great rivers fed by unfailing streams were flowing to the sea, sparkling brooks were dancing gaily in the sunlight, charming lakes fringed with verdure and flowers were flashing their beauty like diamonds on the bosom of the fair mother earth, stretching out to the distant horizons were vast prairies whose emerald green melted into the sapphire of the sky, and there were flowers, flowers everywhere. God loved them so He filled the world with them all the way from the sunny tropics to the vast tundras of the Arctic. He makes winter glorious. In the cold North, at evening time, there is the most gorgeous display of which we can have any conception, when the curtains of the Aurora Borealis, flashing as with the coloring of the most sparkling gems, burn and glow, vanish and come again, lighting up all the clear heavens with entrancing splendors as if great moving pictures from the very heavens were controlled by the unseen hands of angels.

When it comes to fruits, God might have given them the sombre color of the cobble-stones—but no. One of the finest pictures on earth, the orchard in autumn with its great luscious burdens strapped up in envelopes of red and gold. The cherry tree is made beautiful—a bouquet of white in early spring and later you see the mingling of the red with the green—one of nature's fairest pictures. The strawberry—God's climax—is more valuable because of its superlative beauty. Fruits are not ready for delivery until they have their wrappings done up in colorings no artist can reproduce.

How endless the varieties of the trees with their different forms and foliage. Sometimes there are those of golden and purple tints, contrasting so well with the green of others. Then in the autumn, forest and moun-

tain are vast foliage gardens—nature holding a carnival of color before entering the solemn lent of winter.

What a family of shrubs He has given us. One hundred and fifty kinds of lilacs, with the power to produce more till we may run them into the thousands. These stretch the time of blooming from early spring till the first of July. In the West, we have not the full assortment of shrubs for our trying climate which they have in the moister and milder climate of the East, and yet, we have the power and skill for producing more. Our own "Wizard of the North," Professor Hansen, has brought out of the unknown a cross of *Prunus Pissardi* and *Besseyi*, one of the most beautiful shrubs I ever saw, symmetrical in form, with foliage of deepest crimson purple. Back in the unknown land there are other forms of loveliness which we trust his skill will drag forth to light.

The charming family of the *Philadelphus* or *Syringas* is a numerous one, and new types are being constantly added; so with the *spireas* and there are the *viburnums* and other shrubs which are all the while being improved.

When we come to flowers, we are in a land filled with the very fascinations and astonishments of loveliness. The rose, the peony, the phlox, the canna, and the dahlia with hosts of perennials show the love of the beautiful on the part of the Creator. But this is not all; the native flowers are but the beginning of things. They are mostly single. He gives man the skill to make them double and to increase their beauty manifold. There is kindly Nature, daughter of God, her head white with the snows of the millenniums, and yet, on her tresses are the glintings of the sunlight of eternal youth with each recurrent spring time. She is ever old and ever young, and yet, into the inner temple of her Holy of Holies, she permits us to go where she opens before us new pages of mystery and permits us to work miracles with her. What stupendous changes have been made with the phlox, the peony, the dahlia, and carnation, so marked, so divergent from the parent source their own mother would not know them. Yes, back in that unknown are reserves of beauty human eye hath not yet seen, waiting to be revealed so that the things we have already seen are only prophetic of further revelation.

Such men as Burbank, Hansen, Patten, and many others are high priests of Nature, commissioned of God to carry out his plans as well as the Gospel minister, the statesman, and the patriot.

The world's unused capital of the useful and beautiful is something stupendous. Providence stands at the door and knocks. In His arms are not only spiritual gifts but also material blessings of amazing value. One hundred and fifty years ago, there were undiscovered continents of power—steam, oil, and electricity—all unused. The most potent sources of corporate wealth are from these recently acquired materials. God helps men and women to invade the undiscovered continents of beauty and uncover riches greater than those of Golconda.

When a carnation sells for \$30,000,

and that is but its beginning, when a *Festiva Maxima* grows to be worth \$100,000, when other floral gems reach such high value, then it pays to explore that unknown land. Why, just think of it! All around our horizons are vast armies waiting for you to open the gates and let them in, forests to clothe the waste places of the farm, to pump gold for you from the mud, evergreens for steep hillsides, trees of rare symmetry and loveliness for your lawns, shrubs with blooms of red, pink, and snow, flowers in great masses clothed in fairer robes than ever were worn in palaces of kings.

I need not tell you of the beauty and of the grandeur beyond where the furrows in the fields of azure are blazing with stars in the limitless flower gardens of God. The brightest gems of earth are only the alphabet with which we read the splendors of the garments of the suns.

We are living in the margin of all that splendor and this borderland which touches it should have some forecasting of the glory to be revealed, so take what is yours—the wealth of the forest, the tree, the shrub, and the flower and fruit.

Man's stinginess and narrowness are insults to the Divine bounty. Man builds a mansion, or simply a comfortable dwelling and fills it with costly furniture, but when he goes into "God's great out-of-doors" a wave of poverty strikes and almost paralyzes him. A ten-cent flower or a twenty-five cent tree is all he can afford. Think of putting a \$3,000 picture in a fifty-cent frame. The moment he moves into his house and occupies his furniture, both begin to depreciate and soon become second-hand goods, but let him fill that yard with the most delightful trees, shrubs and flowers which money can buy; let him plant in masses as God does and the moment they leave his hands, they begin to increase in value. We reiterate, "Beauty is wealth," so raise plenty of it and glorify the home.

Do some home missionary work for yourself in the evangel of beauty. You need it badly enough. Do something for your neighbors. You can not live down here long, at best, but leave a worthy trail behind you to let people know you passed this way.

A single farm, put to its best, would be a Mecca for pilgrims in search of the beautiful. A whole section of rich prairie would be like a section of paradise let down to earth. A whole township improved as it might be, would make earth so attractive that the best Christian would be willing to stay out of heaven awhile to enjoy it. Such surroundings would lengthen life and prolong a stay on earth. Home would be a delightful memory to children in after years. If a man wanted a vacation, he could go over to the next section and lose himself in the delights of an earthly elysium. Such improvements would lift a man out of the hog-and-hominy range into a higher life.

Cattle, horses, hogs, corn, and wheat are all right in themselves. They have given you competence so you can now fix up and you will find that there are other things fully as attractive and beautiful as the hog, and yet, what farmer gives that front yard as much attention as he does his pig-pen?

NATIONAL CHRYSANTHEMUM SOCIETY.

On the 4th and 5th December last the above society held its annual winter show in the Crystal Palace, Sydenham. The weather on the opening day was rather unfavorable, but in spite of that disadvantage there was a very effective and interesting display. A large gold medal was awarded to H. J. Jones for a fine group. A row of immense porcelain Japanese vases were arranged at intervals at the back, each filled with massive blooms of Japanese chrysanthemums, one color in each vase. Then there was a row of bamboo supports, containing a mingling of large show flowers of various kinds, the whole being mingled with choice little groups here and there of singles and decoratives. Bamboos, palms, foliage plants and a front edging of maiden hair ferns completed this artistic floral composition. Henry Cannell & Sons put up a fine exhibit, eighty feet in length, comprising a grand selection of their zonal pelargoniums and chrysanthemums, for which they received a gold medal. A grand display of begonias, Turnford Hall, Ensign, Myra and Nitida in great quantity occupied the middle of this important group. W. Wells & Co. staged a composite group of singles, decoratives and big show flowers.

The competition in the cut bloom classes was very well maintained, there being numerous entries in each class. The Incurved were remarkably fine and the Japanese were also in as good form as might be expected earlier in the season. The classes for chrysanthemums in vases, in baskets and in other floral designs were also of a high order of merit, and were numerous. Groups of chrysanthemums and other flowering plants arranged on the ground level were most daintily shown. Mr. W. Howe set up two first prize groups of this kind that were much admired for the great taste displayed in their arrangement, and in which he is an adept. John Laing & Son staged a group of palms, ferns and foliage plants, John Peed & Sons had a nice lot in the begonia class, consisting of some finely flowered pots of Gloire de Sceaux, and Mrs. L. de Rothschild. William Dane had an attractive lot of conifers, etc., comprising some choice specimens of abies, retinospora, cypresses, taxus, juniperus, euonymus, berberis, ligustrum etc., in variety. Fruit was shown by the Nova Scotia Government, principally apples. A gold medal was awarded for this exhibit. One lot consisted of apples packed in baskets, an-

A CHRYSANTHEMUM SHOW IN SCOTLAND.



We present herewith a view in what has been pronounced the record display of chrysanthemums at the Glasgow Corporation Camphill Gardens.

other lot were in boxes and a third lot and the most varied in extent was set up on plates.

A great feature of the show was the numerous exhibits of single-flowered chrysanthemums, miniature pompons, and thread-petalled varieties which are of great artistic value in floral work at this season of the year. Numberless instances of these were on view. A good competition in the class for 18 Japanese brought some grand blooms. The large incurved class was also remarkable for the large number of big, massive blooms, mostly dressed to perfection.

Market Chrysanthemum Show.

The annual show of market chrysanthemums under the auspices of the National Chrysanthemum Society, was held on December 11th in the Foreign Flower Market, Covent Garden, London. There was a good display, but the arrangement, as may be expected, was purely a commercial one, very little attempt at artistic display being made. Philip Ladds was first in Class 1 for a collection of market blooms in bunches to fill a table space 15 feet by 3 feet. His best blooms were Snowdrift, Yellow Victoria, Framfield Pink, W. H. Lincoln, Mme. Paolo Radaelli, Tuxedo, Golden Age, etc. Class 2 was for a similar collection to fill a table space 10 ft. by 3 ft. Butler Bros. were awarded first, with Mme. Rene Oberthur, W. H. Lincoln, Yellow Thompson, Nagoya, A. J. Balfour, Lord Brooke and many others. The second prize in

We are advised by the Parks Department that it is not only the finest display they have ever made but that it stands unequalled in Scotland. Forty-one varieties were represented.

the same class went to J. Tulley, who had Niveus, Red Canning, Mlle. T. Pankouckè, Mrs. Hermann Kloss, Papa Villiard, Mrs. Judson and others. Class 3 was for singles. We noted Single Victoria, Horton, King of Siam, Kitty, Robt. Morgan, Linton, Gen'l Bullough, Roupel Beauty. A fine display was made in Class 4. Twelve vases of market blooms, 12 blooms in each vase, disbudded. Philip Ladds was first, R. Weir second and J. & F. Chatfield third. The best blooms staged by these exhibitors were Buttercup, Snowdrift, Mme. P. Radaelli, Mme. Rene Oberthur, Framfield Pink, Guy Hamilton, Mrs. J. Thompson, Mlle. Lawrence Zede, F. Pilon, Golden Age. Class 5 was for a collection not disbudded. Good blooms were staged of Niveus, Nagoya, Winter Cheer, Heston White, etc. All the above classes were open to market growers and nurserymen.

In the second division, open to commission salesmen, not growers, there was also a class to fill a table space 15 ft. by 3 ft. The third division was open to all, and consisted of classes for three vases of yellow market varieties, three of bronze, three of white, three of pink, three of crimson, three of singles, three of plumed, three of spidery.

Provision was made for groups of pot grown market chrysanthemums. There were some good lots shown, but they were flat in their setting up and not at all attractive from an artistic point of view. There were six entries in the class for the best packed two boxes of market chrysanthemums, only one variety in a box. R. Weir was first, with Winter Cheer and Snowdrift.

With this show the chrysanthemum season for 1907 closes.

C. HARMAN PAYNE.

SOME PHASES OF POLLINATION.

Results with Sacked Blossoms.

The question of the potency of pollen as a factor in the fertilization of the blossoms of fruits is comparatively new. Some years ago the writer tested the pollen of various varieties of grapes that seemed to show that the viability of the pollen was the chief if not the only factor which determined whether a given variety was self-fertile or self-sterile. This naturally suggested the query as to whether the same conditions did not possibly exist among other of our cultivated fruits. In apples, in particular, as the most important of our fruits, an investigation was started with a view to determining the self-fertilizing capacity of the various varieties. This work has been continued now for about four years in a very desultory way, owing to interruptions caused by the intervention of other work, change of location, etc.

One of the first, and almost indispensable things in an investigation of this kind, is a complete and accurate list of the self-fertile and self-sterile sorts. Unfortunately, there are no such lists which are generally accepted. Many investigators question the accuracy of the results secured by sacking the blossoms of such fruits as apples and pears, basing their skepticism on the fact that many varieties which fail to set fruit in sacks do not fail to give satisfactory crops when planted under conditions where access of pollen from other varieties would be improbable, if not impossible. Several experimenters, to my knowledge, have sacked large numbers of blossoms for several years in succession with such contradictory results that they were never published. Generally the results of such experiments prove altogether too much. Varieties of apples which are recognized to be self-fertile will frequently set no fruit at all under sacks, and will almost invariably set much less than when exposed to the visiting insects; and this is true even when the trees are standing in solid blocks of one variety so that cross pollination of the outside blossoms is very improbable.

Confusing Results with Apples.

In some experiments carried on by Lowe and Parrott, and kindly loaned me by Mr. Parrott for this occasion, a small Ben Davis tree was completely covered with muslin. On this tree there were 315 blossoms but only five set fruit. Other trees of the same variety alongside set the usual crop. Yet Ben Davis is known to be a self-fertile variety. Such instances could be duplicated many times from the experience of every horticulturist who has investigated this subject to any extent. On the Geneva Station this year sacks were placed on the blossoms of 60 varieties, from ten to twenty sacks being placed on each tree. Tolman Sweet, which is sometimes classed as a self-sterile sort, set seven fruits in one sack. Oldenburg, which is known to be self-sterile, gave no fruits whatever, although the twigs surrounding the sacks were covered with the usual crop. The results of other varieties were equally confusing. Such experiments as this are not worth publishing; all that they indicate is

that sacking alone will not determine for the apple, as it does for the grape, whether the variety is self-fertile or self-sterile. The question naturally arises why is it that a variety normally self-sterile should fail to give fruit under sacks. It manifestly must be on account of some abnormal condition produced by the presence of the sack. A manila sack being close and impervious, will naturally shut out more or less of both light and air, but the same is not true of muslin sacks, yet they give the same contradictory results as the paper ones. In Lowe and Parrott's experiments, where they covered small trees or large branches with muslin, windows were made of wire screens for the admission of light and air. In no case did they find that there was any more fruit close to the windows than away from them, and there were no more fruits in the muslin sacks with windows than in those without. So it seems that it can hardly be a question of the lack of light and air. In putting a sack over a cluster or several clusters of blossoms it is very difficult not to have the sides of the sack so close to the blossoms that the natural movement of the sack in wind would cause it to press against certain of the stigmatic surfaces after the petals have expanded. It seemed a question as to whether this possible injury might prevent fertilization from taking place. Examination of a large number of sacked blossoms, however, fails to show that there was any greater probability of the fruit that set being in the center and more protected than in the outer portion of the sack. This year four fruits were found, each in different sacks, where the sack had been pulled down on the branch so far that the blossom was bent back upon itself so that the calyx end of the fruit pointed down upon the branch upon which it was borne. Yet fruit had set under these conditions. In numerous other cases fruit had set with the calyx pressing against the sides of the sack, showing that the contiguity of the sack apparently had no deterrent effect on the setting of fruit. There seems to be only one other abnormal condition produced by the sacks, and this is the prevention of insect visits. The use of the sacking method as a means of determining a fruit's capacity for self-fertilization is based on the supposition that it will prevent insects from bringing pollen of other varieties while the pollen of the blossoms enclosed will fall on their own stigmas. So far as I am aware, it has never been proved that this is actually the case. The stigma of the apple is receptive, even before the blossoms open. If blossoms are castrated the day before they normally open and pollinated at the same time, they will usually set fruit. How long the stigmas remain receptive I do not know, but I have never found as good results from the later pollinations as from the earlier ones; apparently showing that the receptive condition is not long continued. When the blossom opens the anthers usually have not burst, and no pollen is available from that blossom. They soon commence bursting from the outside in, that is, those at the periphery dehiscence first, and then those toward the center. Thus it

will be seen that the chance of the stigma being past the receptive condition before the closest stamens would have available pollen is very great, and that pollen from other and earlier blossoms would be necessary in order that fertilization should take place.

The Reason Possibly a Mechanical One.

A consideration of these facts makes it appear possible that the reason why apple blossoms seldom set fruit under sacks as readily as they do outside, is a mechanical one and due to the pollen not being on the legitimate surface at the proper time. I have been confirmed in this view by the finding in one orchard this year that in every case where fruit had set in the sacks, the apple aphid was present also. These sacks were wired to the twigs, and while it might be possible that an aphid could crawl through the opening, it does not seem possible that it could do so with pollen sticking to its body without the pollen being rubbed off. This coincidence was so marked that it was possible to tell whether there were apples in any particular sack by tearing off the bottom of the sack and looking for the cast skins of the aphid. If these were present, then the fruit could be confidently looked for. In one case there were seven fruits in one sack, the variety being Tolman Sweet, which as is mentioned above, is sometimes listed as being self-sterile. For these reasons, and others which the length of this paper will not permit me to elaborate, I am strongly of the opinion that we will never secure satisfactory results from sacking apples except where they be also hand pollinated with their own pollen. This manifestly is going to add very seriously to the labor of all such investigations.

Extending the Blooming Season.

One of the great difficulties in doing laboratory work with pollen is the comparatively limited time during which the varieties are in bloom and pollen is consequently available. This renders a proper verification of results impossible without extending the work over several years. Work which must be done in installments of two or three weeks at a time, with a year intervening between each period of work, is necessarily unsatisfactory. Even to the most enthusiastic there is such a thing as the flagging of interest in work so intermittent. For these reasons I have tried to determine the feasibility of extending the blooming season by forcing twigs of the fruits in question into bloom in the greenhouse during later winter and early spring. Trial showed that previous to January 1st twigs placed under greenhouse conditions were slow to start, and that some of the buds would not start at all. It is quite possible that by the use of ether this difficulty could have been overcome, but as it was considered that a period of from four to five months would be sufficient time for the purpose, no effort was made to extend the period beyond the date mentioned. Some fruits can be forced into bloom so that pollen can be

secured very easily, peaches and apricots being probably the easiest of the lot. With these two fruits nothing more is necessary than placing the twigs in water or wet sand in a house where the temperature will run from 60 to 80 degrees as a diurnal range. A room used for forcing roses is well adapted for this purpose. Plums and cherries are not quite as easily forced into bloom as peaches, but they would not be called difficult. I have found the best results from forcing these in flats of sand which should be kept damp but not too wet as an excess of moisture is apt to cause a rotting of the part in the sand and a consequent withering of the part above. Apples and pears are the most difficult of the fruits to force inside, and yet with a little practise these can readily be brought into bloom with only a small per cent of failures. Good healthy twigs should be selected with from two to five fruit spurs thereon. These twigs should not be longer than fourteen inches, as twigs of greater length are more apt to wither if the temperature runs high, owing to greater evaporating surface. As soon as they are put in the flat they should be wet and then put under the bench in a cool room, one that is kept at about fifty for a night temperature being well suited for this purpose. They should be moved into the sun gradually and after about ten days or two weeks they should be moved to a warm room. Ventilation should be given at once if the sun raises the temperature above eighty degrees. Frequently the part of the twig below the sand will start to decay. In such a case the twig should be pulled out, the decayed portion cut off and the twig reinserted in a flat of clean sand. By putting in fresh boxes of twigs every few days it is possible to have pollen each day for as long a period as is desired. Pollen from twigs forced in this manner gives approximately the same results under test in the laboratory as that secured from the field. It will vary considerably from either source so that an exact comparison is impossible.

Laboratory Methods.

I have used wholly for hanging drop cultures the glass cells, finding them more convenient to inspect than either the rubber or zylonite. For sticking the cell to the slide and cover slip, the common laboratory mixture of equal parts of beeswax and vaseline is very satisfactory and could hardly be improved upon. Great care must be taken that the sealing is tight, otherwise the drop will dry up and the culture be ruined. For fear of some such accident it is better to make the culture in duplicate. While it is desirable that the laboratory be kept at as even a temperature as possible, variations of five or ten degrees will not usually be apparent in the growth of the pollen, except that a low degree will retard the growth somewhat. In case the pollen is being taken from the orchard at the normal blooming season it will be found advisable to take twigs on which the blossoms have not yet bloomed and place them in water inside until anthers dehisce. This will give not only a more plentiful supply

of pollen, but also an assurance that no contaminations of the pollen have been caused by insects or wind, bringing pollen from other varieties.

Media.

I am not at all sure that the best media for any kind of pollen has been discovered. I have used only the standard media, mixtures of sugar, gelatine and water; determining the proper strength for each kind of pollen by trial. Substitution of dextrose for sugar gave no apparent benefit and was consequently abandoned. And the use of glycerine either as a substitute for gelatine or in addition to it gave similar negative results. Media of quite different strengths seem to be demanded by different fruits. Plum pollen generally gave best results with about fifteen per cent. sugar and one and one-half per cent. gelatine. Cherry with ten per cent. sugar and five per cent. gelatine. Pear and apple twenty per cent. sugar and five per cent. gelatine. Where the per cent. of sugar is too high, the grains of pollen do not germinate in such numbers, and the growths are short, although they seem strong and symmetrical. Where the sugar solution is too weak, and particularly where the gelatine is not sufficiently strong, the tubes are numerous and long but they are apt to be grainy and irregular in size at different points in their lengths. Bacteria and various ferments sometimes bother by getting into the media, unless great care is taken to keep everything as sterile as possible by corking the bottles in which the media is kept while it is still hot and by washing slides, cover slips and cells with alcohol or some other quick-drying antiseptic agent. Media should always be neutralized by the use of a few drops of some alkaline mixture as the pollen does not germinate readily in acid media. The media should also be thoroughly shaken in the bottle as soon as prepared, a thorough aeration seeming to add to its efficiency. It would simplify greatly the question of media preparation if it were possible to analyze chemically some of the stigmatic secretions. The few chemists to whom I have mentioned the matter held but little hope of its being possible. There are two difficulties in the way, first, the probable delicate chemical nature of the compound which might change in a few hours; second, the practical impossibility of securing enough of the fluid for a proper analysis. At one time when the stigmatic fluid was standing in drops on the pistils of grapes I tried to gather some of it in a watch glass for use in the laboratory, but it would evaporate practically as fast as it was gathered so that at the end of three hours all there was to show was a smeared and sticky watch glass. Even taking it for granted, however, that conditions might be devised under which pollen would make a better growth than under those which our imperfect knowledge of the subject enables us to give, this would not demonstrate the lack of value of such tests as at present conducted. If all of our standard varieties of any kind of fruit were tested under any kind of conditions that were uniform for all the varieties in question so that the

comparative strength of all the pollen would be determined, then field tests of any one of these varieties for self-fertilizing power would give a line on all the others. For instance, even if it were found that varieties in which less than twenty-five per cent. of the pollen germinated in the laboratory were uncertain bearers when planted by themselves outside, that would be tangible and definite data capable of being utilized in orchard practice, and this without reference to whether the percentage of germinations as given inside were the same as would be given under natural conditions on the stigmatic surfaces or not.

Pollen Tests.

In the case of apples, with which I have worked more than with any other fruit, there are a few varieties in which the pollen is nearly all good ranging from ninety to one hundred per cent. germinable. Others give germinable values from this downward, sometimes only one or two per cent. of good pollen. I have not found a single variety but that two or three tests would show some germinations. In this respect there is evidently quite a difference between apples and grapes. With the grapes there were a large number of varieties in which all the pollen was good, and an equally large number in which none of the pollen was good, and a smaller number in which the good and bad was mixed. With the apple there are very few with all pollen good, none so far found with all pollen bad, and the great mass showing different proportions of mixed forms. Pollen of the same variety from different trees, and even some time from the same tree, will give varying results. The whole procedure is one of approximations rather than precise determination. There are certain varieties which seem to have a constitutional weakness in the matter of pollen production. Under unfavorable conditions they furnish pollen with a low germinating capacity. Where the conditions are more favorable they give a better pollen; but whether favorable conditions for pollen are the same as favorable conditions for tree growth, I have not sufficient evidence to say. Three varieties in which the pollen appears to be notably weak are the Gravenstein, Tompkins King, and Esopus Spitzenburg. The Gravenstein being a comparatively late introduction from Europe is not so well known, but for the last two varieties I believe it is generally recognized that they are raised successfully only in certain neighborhoods—that is under favorable conditions for pollen production. Five varieties in which the pollen was particularly strong are Jonathan, Wagener, Ralls, Wealthy, and Missouri Pippin. All five of these are good and regular bearers. In the case of four of them they have the recognized weakness of overbearing on mature trees, and the fruit being consequently undersize. All are widely distributed, well-known varieties in the sections where they mature. The selection of favorable conditions for the setting of fruit is evidently not necessary where good pollen is borne in the abundance that it is in the case of these varieties.

Not enough varieties have been tested, nor in many cases have the

tests been thorough enough, so that a list of varieties can be given with the percentage of viability of the pollen indicated. Each year's work seems to make the problem more complex and the range of investigation wider. As pollen seems to vary in different sections, it appears desirable that it be tested in various places, and the results compared. It is with a hope of arousing interest in this phase of pollination that this paper is presented.

W. O. Booth

CATALOGUES RECEIVED.

J. Lambert & Son, Trier, Germany.—General catalogue of flower and vegetable seeds, plants, roots, etc.

Samuel Murray, Kansas City, Mo.—List of Christmas plants for 1907, including Murray's unrivalled Lorraine begonias and Chinese primroses, the latter grown from Farquhar's seed.

Charles H. Totty, Madison, N. J.—1908 catalogue of chrysanthemums, carnations, roses and other specialties. As might be expected the list of chrysanthemums in this catalogue, while limited to the cream of the different types is very complete from the standpoint of the grower either for exhibition purposes or for sale. Every chrysanthemum grower will want a copy.

Alex. Dickson & Sons, Ltd., Newtownards, Ireland.—Rose catalogue for 1907 and 1908. Colored plates of Avoca crimson, Harry Kirk yellow, Elizabeth Barnes salmon rose, Souvenir de Stella Gray orange, Dorothy Page Roberts coppery pink, all pedigree seedling roses for 1907, are inserted and add to the attractiveness of this very comprehensive list which describes in full some eight hundred varieties of roses in the various classes.

PUBLICATIONS RECEIVED.

Missouri Botanical Garden, Eighteenth Report, 1907.—The annual reports of Director Trelease and the officers of the board which make the first two chapters in this volume furnish ample evidence of the good practical work this great St. Louis institution is carrying on. The scientific papers which follow include The literature of Furcraea with a synopsis of the known species, by J. Drummond; Branch Cankers of Rhododendron, by Herman von Schrenk; On first injuries to sycamore buds, by the same author; The germination of Hydrastis canadensis, by Henri Hus; An abnormal Odontoglossum Cervantesii, by the same; Virescence of Oxalis stricta by the same; Effect of light upon the germination of spores and the gametophyte of ferns, by H. C. Life; Plantae Lindheimerianae, Part III, by J. W. Blankinship; Additions to the genus Yucca, by William Trelease; Agave macroacantha and allied Encaves, by the same. A portrait of F. Lindheimer forms the frontispiece of the volume and there is a large number of interesting and beautiful plates. A complete index to Plantae Lindheimeriana is given.

CHARLES G. PATTEN OF CHARLES CITY, IOWA.

President-elect of Iowa Plant Breeders' Society.

The history of the apple runs parallel with the history of man, but never in its long story has it had such an intelligent, persistent, devoted friend as the subject of this sketch.

Peter Gideon, the pioneer pomologist of the Northwest, who gave the best of his life to moving the apple belt three hundred miles to the north, went at the matter in a sort of a blind, dogged way like a hound on the track that would not give up till he died. What if his elbows were out of his coat and his toes out of his boots, he keeps at it till he blazes a path through every difficulty and gives the world the Wealthy which has been such a signal success.

Forty years ago, Mr. Patten began his work along scientific lines. He did not rush, but laid siege and by slow approach has won success never before accorded to man.

The Situation.

Eastern and southern fruits would not grow in the North. It is well-known however that the higher altitude in the mountains the apple can have, and the further north it can be grown, the better it is. Orchard after orchard went down before 40 below zero and so a new and hardy race must be created. Even the Wealthy was not entirely hardy, especially on a common stock. So the Iron Clad apple must be built up, hardy from the tiniest rootlet to the topmost bud. Again there must be a greater variety of fruit and longer keepers. The Rhode Island Greening was a good apple but it was not hardy. Top grafting on a crab cross increased its power of endurance. He crossed this with the Duchess and that gave Patten's Greening, giving the fine flavor of one and the hardness of the other. It has had a marvelous record. It has or will, add millions to the wealth of fruit growers. Hardy as an oak, with good quality and an enormous bearer, it is a great favorite.

Now the work fairly opens and broadens. The best two apples in the West are the Jonathan and Grimes Golden. The question is, how to transmit their lusciousness to a progeny hardy enough to endure the severe winters. We can not stop to tell of the long, tedious process but he showed us a cross of Grimes' Golden and Patten's Greening which seems to fill the bill. He also exhibited the Jonathan which had been born again into the Iron Clad family. At the Minnesota meeting of the Horticultural Society, this winter, he showed fifty-five varieties of his hardy hybrids, all of them worthy of propagation, in flavor varying from the sourness of the Duchess to the most luscious sweets. Color in apples is an important item and he has succeeded admirably in transmitting the richest tints to his new creations.

It was highly important to have a suitable stock for foundation. For, time and again, orchards of hardy varieties were wiped out because they had tender roots. He tried the Pyrus baccata, the little Siberian crab. This worked well for a year or two but was not thrifty enough to sustain the tree and some began to blow over. Then he found the best types of the crab crosses, like Whitney's No. 20 and the Transcendent, with seedlings of the Duchess and Hibernial and others of that character were just right.

Mr. Patten is now seventy-five years young and his health is better than it has been for the last ten years. He says, "I must live twenty-five years longer to see my work through, then," he says, "I have reached a point where I can't go on and I can't let go." Can we estimate the work of hands and brain of such a man, reaching through forty years of the most painstaking research, evolving from his own genius, results worth millions? He is not a pauper but he can not give mind, soul, and body forever, without help. In some way the State or Government or some big-souled or big-pursed man should help. The giving should not be all on one side.

He might have done like some others we know of, take some new thing, herald it with great flourish of trumpets, with bright pictures, and plenty of printer's ink and big prices attached. He is too conscientious. "It takes time," he says. "A tree must be tested in various locations. We must get acquainted with it before we send it out and know that it will fill the bill, not only at home but elsewhere."

See how the work widens. Here are those fifty-five new and partially tried varieties. Thousands of new sorts on the way and barrels of well-bred apples the seeds of which should be sown and the results noted. And thus the work grows on. The grand old man who for untiring zeal, intelligent, and persistent efforts on behalf of the King of Fruits, doubtless stands without a peer in all the earth and all the ages.

C. S. HARRISON.

York, Nebr.

The Long Island Agronomist is authority for the statement that the record shipment for one day from one community, via the "Cauliflower Express," was 7,000 barrels each containing from ten to twenty-five heads of the succulent vegetable, according to the method of cutting and sorting.



GEOMETRIC BEAUTIFICATION.

Generally speaking, the current popular movement for the beautification of cities cannot be commended too highly, but it is doubtful if the passion for a geometric arrangement of squares, avenues, walks, trees and flower beds will prevail very long. To many persons such efforts seem crude and in-artistic. The attempt to improve upon nature displayed in the setting out of many small trees in straight or crooked lines, and the general artificial appearance which characterizes much of the landscape work that we see seen in much the same spirit as that displayed by the South Sea island belle who tries to improve her beauty by tattooing her face with artistic designs, putting a ring in her nose, blackening her teeth and so forth. Of course it is nothing short of heresy to suggest this, when eminent landscape architects take an opposite view.

The national capital has been having a rather lively controversy upon this very point. The plan of a commission composed of three distinguished architects to wipe out the Mall, with its shade trees and lawn, and replace it with a square resembling closely the open spaces in Paris, and in which concrete roads and walks, long rows of dwarf trees and other features would unite to produce strong geometrical effects, is meeting with considerable criticism, despite the high standing of the experts who recommend it. When the scheme has been worked out, if it ever is, the critics may be silenced by its impressiveness, but at present it seems that there is some reason to feel that the coolness of the green lawns and overhanging trees is more inviting and pleasing, during much of the year at least, than hot cement pavements. It is a rather curious feature that the ideas which the architects are borrowing from Paris seem to have been copied originally from L'Enfant's elaborate plans for beautifying Washington, which never were carried out. That such ideas are best adapted for Washington today is open to some question, and it is still more doubtful if a similar style of beautification should be adopted in other cities of the country.

It is desirable, if the beautification of American cities is to be successful, that all will not be governed by the same set of ideas, which dictate certain circumscribed methods that will make every city resemble all the rest, and seem like an imitation of work done in the Old World. The century or more which has elapsed since these ideals had their rise has witnessed the birth of a new respect for nature such as must influence all branches of art profoundly, as it has already influenced religion, medicine and various other lines of activity. It is likely that future experts in the work of landscape beautification will insist less on the distortion of nature and will be more willing to let nature co-operate with them in carrying out their plans.—Springfield Union.

The stock and fixtures of the store at 42d street and Broadway, New York, formerly occupied by C. R. Scallen, were disposed of at sheriff's sale on December 16; \$247 was realized.

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STANDARD VARIETIES.—In standard varieties we offer an immense stock in prime condition, for immediate shipment, at from \$2.00 to \$4.00 per 100. For \$18.50 we will send one thousand, 50 each of 20 varieties, our selection, single and double, all "A No. 1" kinds.

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Heliotrope, good assortment.....	2.00	dwarf white.....	2.00

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NEWS NOTES.

T. F. Matthews, florist, Boston, has filed a petition in bankruptcy; liabilities, \$1145; assets, \$26.

Fire in the greenhouse of E. A. McGehee, Roanoke, Va., was extinguished with but slight damage.

Under the name of the Buffalo Cut Flower Co., J. N. Bailey has started in business at 468 Washington St., Buffalo, N. Y.

Justus Geist of Melrose, Mass., was a sufferer by fire which started in the block in which his flower store is located, on December 20.

The Southern Seed Co., Louisville, Ky., lost \$8,000 through fire in their building by which their seed supply was injured by water. They are fully insured.

The Philadelphia Ledger states that Charles H. Nimson, an ironmaster of Allentown, Pa., who died on December 19, was the "discoverer" of the galax leaf a North Carolina product which netted that state more than its iron last year.

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J. L. MOORE, Northboro, Mass.

Obituary

Thomas Burns.

Thos. W. Burns, 33 years old, son of Samuel Burns, vice-president of the Weathered Co., died Sunday, December 15th, at his home, 156th street, New York City, of typhoid fever. He served his apprenticeship with the Weathered Company and acted as assistant to his father for a number of years. He then connected himself with the Lord & Burnham Co., acting in the capacity of assistant heating engineer, working with them for about four years. In December, 1905, he took a position with the Richardson & Boynton Co. as boiler salesman, where he remained until the time of his death. He was a man of sterling character, devoted to his family, thoroughly practical in his business and made many friends amongst the gardeners and florists throughout the country. He had always enjoyed good health until



THOMAS W. BURNS

stricken with his fatal sickness; therefore his death was a shock to his many friends. He leaves a widow and two children to mourn his loss.

William Harris.

William Harris, a florist, of Buffalo, N. Y., 50 years of age, unmarried, died suddenly on December 11.

John Bloompot.

John Bloompot, florist, of Pekin, Ill., born in Rysum, Germany, July 10, 1835, died at his home on December 12.

James Dell.

James Dell, who has been connected with the flower business in Pittsburg, Pa., for about 20 years, died recently in that city.

William N. Oakes.

William N. Oakes, for the past 30 years engaged in the florist business in Westfield, Mass., died on December 19, at the age of 78.

William M. Blackman.

William M. Blackman, a well-known florist of Trenton, N. J., was stricken with apoplexy and passed away on

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December 15. He was 62 years of age. A widow, four daughters and two sons survive him.

Eugene V. R. Thayer.

Eugene V. R. Thayer owner of "Fair Lawn," a beautiful estate at Lancaster, Mass., and an enthusiastic patron of horticulture, died at Boston on Dec. 21. E. O. Orpet, the well-known orchid expert is gardener at Fair Lawn.

George Vair.

George Vair, superintendent of the Normal School grounds at Toronto, Ont., died suddenly, of paralysis, on December 10, aged 75 years. Mr. Vair was a descendant of a long line of gardeners, the family having removed to Scotland from France in the service of the royal Stuarts. He was an eminent horticulturist, a man of liberal education, broad minded, devoted to his profession. As a young man he was an enthusiastic seeker after rare plants and his collection forty years ago was not surpassed in this country. At the Centennial Exposition in Philadelphia, his peaches were awarded first honors for size and flavor, measuring over eleven inches in circumference. He had served his town as selectman and was at one time president of the local Horticultural Society and was loved and revered by all.

We learn of the death, a few days since, of the mother of W. H. Ernest, treasurer of the Florists' Club of Washington and ex-captain of the club's bowling team.

The funeral of W. W. Edgar, whose death was recorded in our issue of last week was held at All Saints church in Belmont, Mass., on Saturday, December 21. The edifice was filled to the doors with sorrowing friends among whom was a very large representation of the Boston floricultural interests. The honorary pall bearers were F. R. Mathison, M. H. Norton, T. A. Cox, Wm. J. Stewart, P. Welch, Alex Montgomery, Thos. Roland and Joseph Fuller. The number and richness of the floral tributes exceeded anything seen here for years.

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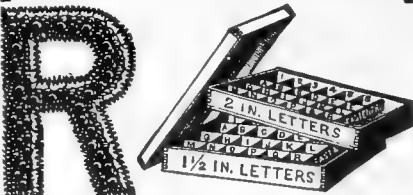
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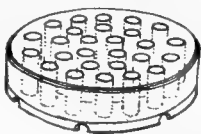
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BUSINESS CHANGES.

F. H. Grimes has rented the green-
house of O. L. Hill, Rutland, Vt.

Spencer & Martin, florists, Utica, N.
Y., have dissolved partnership and the
business will be continued by Henry G.
Martin.

Rahn & Herbert are again estab-
lished at Mt. Tabor, Ore., having pur-
chased Pfunder's Greenhouses, their
old stand.

It is stated that one of the changes
that the new year will bring about is
the union of Briggs Bros. Seed Co. and
M. Cushman & Co., Rochester, N. Y.,
and incorporation.

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1619-1621 RANSTEAD ST.**DAILY CONSIGNMENTS**

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We can care for your cutflower wants to
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AMERICAN BEAUTY and all other
ROSES
LILY OF THE VALLEY, CARNATIONS
WELCH BROS., 226 Devonshire St., Boston, Mass.**WHOLESALE FLOWER MARKETS**
TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	Dec. 24		Dec. 23		Dec. 24		Dec. 24	
ROSES								
Am. Beauty, Fancy and Special...	80.00	to 100.00	80.00	to 100.00	.....	to 100.00	75.00	to 100.00
" Extra.....	50.00	to 75.00	40.00	to 75.00	60.00	to 75.00	50.00	to 75.00
" No. 1.....	25.00	to 35.00	30.00	to 40.00	40.00	to 50.00	40.00	to 50.00
" Lower grades.....	8.00	to 15.00	20.00	to 30.00	20.00	to 25.00	5.00	to 15.00
Bride, 'Maid, Fan'y & Special.....	8.00	to 15.00	10.00	to 15.00	.....	to 25.00	20.00	to 25.00
" Extra.....	6.00	to 10.00	8.00	to 10.00	15.00	to 20.00	12.00	to 15.00
" Lower grades.....	4.00	to 6.00	6.00	to 8.00	6.00	to 10.00	4.00	to 8.00
Killarney, "Richmond, Fan & Sp... " Lower grades.....	10.00	to 25.00	10.00	to 20.00	25.00	to 40.00	16.00	to 25.00
Chat-nay, Wellesley, Fan. & Sp... " Lower grades.....	6.00	to 15.00	10.00	to 20.00	20.00	to 25.00	16.00	to 25.00
Golden Gate, Ivory.....	6.00	to 12.00	10.00	to 20.00	.....	to 15.00	6.00	to 12.00
CARNATIONS								
Fancy and Novelties.....	6.00	to 8.00	12.00	to 18.00	10.00	to 12.00	5.00	to 8.00
Ordinary.....	4.00	to 6.00	6.00	to 10.00	6.00	to 8.00	2.00	to 3.00
MISCELLANEOUS								
Violets.....	1.00	to 2.00	2.00	to 3.00	1.00	to 2.00	.75	to 1.50
Cattleyas.....	50.00	to 100.00	50.00	to 65.00	6.00	to 75.00	50.00	to 75.00
Cypripediums.....	15.00	to 25.00	15.00	to 25.00	15.00	to 25.00	.....	to 12.00
Lilies.....	15.00	to 17.00	15.00	to 20.00	15.00	to 18.00	12.00	to 16.00
Lily of the Valley.....	4.00	to 5.00	4.00	to 5.00	3.00	to 6.00	2.00	to 4.00
Roman Hy., Paper White Nar.....	3.00	to 4.00	4.00	to 5.00	2.00	to 3.00	1.50	to 2.00
Poinsettias.....	30.00	to 40.00	40.00	to 60.00	15.00	to 40.00	17.00	to 33.00
Stevia.....	1.50	to 2.00	2.00	to 3.50	1.00	to 1.50	.....	to 1.00
Mignonette.....	3.00	to 8.00	4.00	to 5.00	5.00	to 8.00	3.00	to 8.00
Chrysanthemums.....	.....	to 1.00	.....	to 1.00	5.00	to 25.00	.....	to 1.00
Adiantum.....	.75	to 1.50	1.50	to 2.00	1.00	to 1.50	.....	to 1.00
Whitmanii Fronds.....	.....	to 1.00	4.00	to 5.00	.....	to 5.00	1.50	to 2.00
Smilax.....	10.00	to 12.00	15.00	to 20.00	15.00	to 20.00	8.00	to 12.00
Asparagus Plumosus, strings.....	35.00	to 50.00	40.00	to 65.00	to 50.00	to 50.00
" " & Spreng. (too bchs.)	35.00	to 50.00	40.00	to 65.00	to 50.00	25.00	to 50.00

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new accounts and guarantee our growers good satisfaction and prompt returns.

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Extra fine lot of **FIREFLY** in bloom from

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WRITE FOR PRICES

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The best all 'round Yellow Chrysanthemum. Strong stools,
\$5.00 per 100

W. W. EDGAR CO., Waverley, Mass.

FLOWER MARKET REPORTS

BOSTON CHRISTMAS REPORT

Boston florists had a good Christmas, every-thing satisfactory and all the more pleasing because few dared to expect so much. The weather was very favorable on Tuesday and Wednesday for the flower and plant trade, and this circumstance helped not a little in the final results. As usual the wholesale markets were heaped up with flowers on Tuesday morning, at sight of which the local buyers were disposed to hold aloof and there was a slump, but prices rallied by noon time and the remaining stock was satisfactorily disposed of. The wholesale dealers who do a shipping trade had no surplus at any time, and the only difficulty they experienced was in the handling of the first clearings of the storage cellars, which were shipped in to them on Monday morning. There was nothing salable left unsold in the wind-up. The demand for Beauties was noticeably weak and they fell far short of last year's good record, but Richmond and Bridesmaid roses sold well. Violets were strong factors all through, the warm weather permitting their use for outdoor wear. Poinsettias had to be pushed and were unloaded with difficulty. Lily of the valley did as well as was expected. Too much of this flower is being grown for this market. Carnations were in good demand, especially the bright colors. There were some early yellow trumpet daffodils in, but they found little favor. January 1st is early enough for these flowers. There is little to be said about the plant trade except that it was larger than last year and prices were well maintained. Nothing in the way of novelty was noted. Azaleas, poinsettias, cyclamens, primroses and berried plants were the chief stock.

Trade the week preceding Christmas was rather quiet as far as demand for flowers was concerned, but not unexpected, as such conditions usually prevail at that time. Boxwood, holly and festooning are selling well, and houses that make a specialty in that line have their hands full. Stock in the plant line everywhere is now at its best and ought to be enticing to flower buyers. Fancy poinsettias, both cut and plants, are in evidence with all the leading growers and are meeting with good demand.

NEW YORK CHRISTMAS REPORT

No one expected that the Xmas. business would measure up to previous years. It did not, either in volume or price, but the demand was sufficient— even if it was fitful—to use up nearly everything except white material, of which latter the usual proportion was left over. Prices ruled 25 to 50 per cent lower than last year. The rose crop was light. Apparently there were more long stem Beauties than any other variety, though it is a question if as many were in the market as a year ago. The short grades were of poor quality. The supply of teas was small and quality not over good, excepting some Killarney and Richmonds. Carnations were plentiful, too much so to maintain anything like a fixed price, and of course the bright colors had the preference. It seemed that there was a larger proportion of white this year, and though some brought good figures, many were sold for less than could have been realized a couple of days before. The call for scarlet was not as keen as last Christmas and the supply was heavier. A good many were "over ripe," too. A sign of the times was the number of cattleyas to be seen in the windows of several wholesale houses, and the comparatively low prices averaged, and all were not sold either. The choicest grade of gardenias cleared out well. Plenty of short stem flowers could be had cheap, but it seems they were not all sold. Lily of the valley could be had in quantity until closing time Christmas Day. A large quantity was disposed of at figures little above last week. If it were not that some of the violet men saved a few the picking would have been light, as the crop is off. None of these were left unsold— perhaps the low price helped to sell them. Poinsettias, mignonette, paper whites, Roman hyacinths and asparagus were too plentiful and not wanted particularly. Lilies were moved easily.

PHILADELPHIA CHRISTMAS REPORT

There seems to have been a strong tendency among buyers to indulge in made-up baskets of flowering and foliage plants, jardinières, etc., in preference to cut flowers either loose or in bunches. Still the trade in cut flowers

was good but, in comparison with former years, the fancy basket forged ahead. A rooted plant even if it is neglected as to water will usually stand longer than the cut product, and the pleasure to the recipient is correspondingly augmented. This idea has been working its way slowly but surely for many years. A handsome plant in full flower is a great seller, a nice bunch of roses is lovely and goes good, but a basket with trimmings and containing the combined loveliness of both, and at a price which seems moderate to the buyer, carries the day with the majority. This, in brief, is the experience of 1907. We are not growers, neither are we retailers, consequently our mirror is bound to be unbiased either way. When we say it was a good Christmas we mean it; when we say there was enough good stock left over to start another Christmas, we pretty near mean that too. Early in the game a courageous attempt was made to jack up prices in the cut flower market—the dollar mark for roses and the twelve for carnations, but the situation was too unmanageable and a retreat had to be sounded. The shorts in American Beauties were in better demand proportionately than the fancies although the flowers were poor. All other roses were very satisfactory stock and while prices were not extra there was a good clean up. The carnation men were very bold at first but were the first to back-down. A few very fancy Beacon reached sixteen and Enchantress scored twelve and a half once or twice but six to eight for very good stock was about the size of the market. Reds were the favorites of course, with Enchantress a close second. Large single violets sold well but doubles and small singles were a drag. Lily of the valley

(Continued on page 912)

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

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Fresh cut Palmetto & Cyas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen.

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WHOLESALE FLORIST
 Finest American Beauties and
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FINE ROSES FANCY CARNATIONS
 A Full Line of ALL CUT FLOWERS
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 Richmond Roses and Rich Flowers
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 All Choice Cut Flowers in Season
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 A full line of Choice Cut Flower stock for all purposes. Comprises every variety
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CHOICE CUT FLOWERS
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 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
 GARDENIAS, DAISIES, ROSES AND CARNATIONS
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JAMES McMANUS, 763 Mad. Sq. 42 W. 28th St., New York

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 Commission Dealer, Wholesale Buyer and Seller of
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Finest Lilies in the Market Every Day in the Year.

WHOLESALE COMMISSION FLORIST **J. K. ALLEN** 106 W. 28 ST. NEW YORK
 Telephone 167 Madison Sq.
 OPEN 6 A.M. DAILY
 We have a good regular outlet for seasonable flowers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Dec. 21 1907	First Half of Week beginning Dec. 23 1907		Last Half of Week ending Dec. 21 1907	First Half of Week beginning Dec. 23 1907
Roses			Cattleyas	..... to 75.00	40.00 to 5.00
Am. Beauty, fan and sp.	10.00 to 20.00	50.00 to 100.00	Cypripediums	15.00 to 17.00	12.00 to 15.00
" extra	8.00 to 10.00	40.00 to 50.00	Lilies	4.00 to 8.00	15.00 to 20.00
" No. 1	5.00 to 8.00	20.00 to 30.00	Lily of the Valley	1.00 to 3.00	2.00 to 4.00
" Lower grades .....	..... to 1.00	2.00 to 10.00	Gardenias	13.00 to 25.00	20.00 to 75.00
Bride, 'Maid, fan and sp.	4.00 to 8.00	12.00 to 25.00	Roman Hy., Paper White Nar. ...	2.00 to 3.00	1.00 to 2.00
" extra	2.00 to 3.00	8.00 to 10.00	Poinsettias	25.00 to 35.00	20.00 to 35.00
" " lwr. grds.	1.00 to 1.50	3.00 to 6.00	Stevia .....	..... to 1.00	..... to 1.00
Killbuckey, Richmond, tancy & spec	4.00 to 8.00	15.00 to 30.00	Mignonette	4.00 to 8.00	3.00 to 6.00
" " lower grades	1.00 to 1.50	6.00 to 10.00	Adiantum	1.00 to 1.50	1.00 to 1.50
Chatenay, Wellesley, fan. and spec.	5.00 to 8.00	15.00 to 30.00	Smilax	8.00 to 12.00	8.00 to 12.00
" " lower grades	1.00 to 3.00	6.00 to 10.00	Asparagus Plumosus, strings...	25.00 to 40.00	25.00 to 40.00
Golden Gate, Ivory	1.00 to 5.00	6.00 to 15.00	" " & Spren. (100 bchs.)	..... to 15.00	..... to 15.00
Carnations, Fancy and Novelties. .	2.00 to 4.00	5.00 to 10.00			
" Ordinary .....	..... to 1.00	3.00 to 4.00			
Violets .....	..... to .60	..... to 1.25			

B. S. SLINN, Jr.
 —WHOLESALE FLORIST—
 55 & 57 W. 26th St., New York City
 Tel., 3864 Madison Sq. Shipping Orders Solicited.
VIOLETS Roses and Carnations

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 Furnish best stock at fair prices all the year round Send for quotations on fall orders
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THE WHOLESALE FLORIST OF NEW YORK
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HARDY CUT FERNs

Sphagnum Floss, Extra Large Bales, per bale, \$1.25. Fancy and Dagger Ferns our specialty. A trial order will convince you that we ship only first-class stock. Headquarters for Florists' supplies and wire work. All cut flowers in season. **BOXWOOD**, per bunch 35c, 50 lbs. \$7.50.

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All 'phone connections

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WHOLESALE FLORISTS

54 West 28th St.
NEW YORK

Telephone 3559 Madison Sq.

A. L. YOUNG & CO.

RECEIVERS & SHIPPERS OF CUT FLOWERS.

CONSIGNMENTS SOLICITED.

Headquarters in Western New York

FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

Wm. F. Kasting Co.

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

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FRANK S. HICKS & CO. Wholesale Florists.

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Will purchase flowers on order in
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Palms, Large and Small Ferns, etc.

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Brooklyn's Foremost and Best

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HENRY M. ROBINSON & CO.

WHOLESALE COMMISSION FLORISTS

Finest Grades of Roses, Carnations, Chrysanthemums, Lily of the Valley, Violets, etc.

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See our Fern ad.

WHOLESALE FLOWER MARKETS.—PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Dec. 17		Dec. 24		Dec. 18		Dec. 17	
ROSES								
Am. Beauty, Fan, and Sp.	50.00	to 75.00	75.00	to 100.00	30.00	to 50.00	30.00	to 40.00
" Extra	40.00	to 50.00	50.00	to 75.00	20.00	to 25.00	20.00	to 25.00
" No. 1	20.00	to 30.00	25.00	to 50.00	10.00	to 15.00	12.50	to 15.00
" Lower grades	10.00	to 15.00	8.00	to 20.00	6.00	to 10.00	6.00	to 8.00
Bride, 'Maid, F. & S.	8.00	to 10.00	10.00	to 18.00	-----	to 10.00	12.00	to 15.00
" Extra	6.00	to 8.00	8.00	to 12.00	-----	to 8.00	8.00	to 10.00
" Low. gr.	4.00	to 6.00	6.00	to 8.00	4.00	to 6.00	-----	to 6.00
Killarney, Richmond, Fan. & Sp.	8.00	to 10.00	10.00	to 18.00	8.00	to 15.00	-----	to 11.00
" Lower grades	4.00	to 6.00	6.00	to 10.00	4.00	to 8.00	6.00	to 8.00
Chatenay, Wellesley, Fan. & Sp.	8.00	to 10.00	10.00	to 18.00	8.00	to 15.00	-----	to 12.00
" Lower grades	4.00	to 6.00	6.00	to 10.00	4.00	to 8.00	6.00	to 8.00
Golden Gate, Ivory	4.00	to 6.00	10.00	to 18.00	5.00	to 10.00	6.00	to 8.00
CARNATIONS								
Fancy and Novelties	4.00	to 5.00	6.00	to 10.00	4.00	to 15.00	-----	to 5.00
Ordinary	2.00	to 3.00	4.00	to 6.00	2.00	to 4.00	2.00	to 3.00
MISCELLANEOUS								
Violets	.75	to 1.00	1.50	to 2.50	1.00	to 1.50	1.00	to 1.50
Centurys	75.00	to 100.00	50.00	to 75.00	60.00	to 75.00	-----	to 75.00
Cypripediums	15.00	to 20.00	8.00	to 12.00	15.00	to 20.00	-----	to 15.00
Lilies	-----	to 15.00	15.00	to 20.00	4.00	to 15.00	15.00	to 20.00
Lily of the Valley	4.00	to 5.00	4.50	to 5.50	3.00	to 5.00	4.00	to 5.00
Roman Hy., Paper White Nar.	3.00	to 4.00	4.00	to 8.00	2.50	to 4.00	2.00	to 4.00
Poinsettias	15.00	to 25.00	25.00	to 50.00	25.00	to 40.00	30.00	to 50.00
Stevia	-----	to 1.00	2.00	to 3.00	1.00	to 1.25	-----	to 2.00
Mignonette	3.00	to 6.00	3.00	to 6.00	3.00	to 6.00	6.00	to 8.00
Chrysanthemums	8.00	to 15.00	10.00	to 25.00	15.00	to 20.00	8.00	to 15.00
Adiantum	-----	to 1.00	1.50	to 2.50	.50	to 1.50	1.00	to 1.25
Smilax	12.50	to 15.00	15.00	to -----	-----	to 15.00	15.00	to 18.00
Asparagus Plumosus, strings	40.00	to 50.00	50.00	to 75.00	50.00	to 60.00	-----	to 50.00
" " & Soren. (100 bchs.)	25.00	to 35.00	40.00	to 60.00	25.00	to 50.00	25.00	to 35.00

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We manufacture all our

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Aquarium plants, the year around. Wholesale and retail. Send for price list.
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Maxfield & Dimond, Warren, R. I.

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Asparagus Sprenger, field grown, \$4.00 and \$6.00 per 100. C. Winterlich, Defiance, Ohio.

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Horticultural Products of Every Description.
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A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
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W. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.
Bay State Nurseries, N. Abington, Mass.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.

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Stump & Walter Co., 50 Barclay St., New York.
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Yokohama Nursery Co., 31 Barclay Street, New York.
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Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BOILERS
"Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOXWOOD
A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
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Henry M. Robinson & Co., 15 Province St., Boston.
For page see List of Advertisers.

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BUILDING MATERIAL of all description for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bel Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

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Joseph Breck & Sons, 47-54 N. Market St., Boston.
For page see List of Advertisers.

J. M. Thornburn & Co., 33 Barclay St., New York.
Roman Hyacinths; Bermuda Easter Lilies.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y.
For page see List of Advertisers.
Rickards Bros., 37 East 19th St., New York.
For page see List of Advertisers.

H. F. Michell Co., Philadelphia.
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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.
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James Vick's Sons, Rochester, N. Y.
Fall Bulbs.
For page see List of Advertisers.

D. Rusconi, 128 W. Sixth St., Cincinnati, O.
Callas, Narcissi, Dutch Bulbs.
For page see List of Advertisers.
Aug. Kolker & Sons, 31 Barclay St., New York.

Seasonable Import Plants and Bulbs.
For page see List of Advertisers.
F. R. Pierson Co., Tarrytown, N. Y.
Surplus Forcing Bulbs.
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John Scheepers & Co., 4 and 6 Old Slip, New York.
Lily of the Valley Excellenta.
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K. Velthuys, Hillegom, Holland,
Represented by Felix Bosch, 269 Clarendon St., Boston.
Bulbs French and Dutch.
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Ralph M. Ward & Co., 12 W. Broadway, New York.
Japan Bulbs.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

CARNATIONS
Field Grown
The H. Weber & Sons Co., Oakland, Md.
Seedling Carnation Toreador.
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Rooted Cuttings
John E. Haines, Bethlehem, Pa.
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F. Dorner & Sons Co., Lafayette, Ind.
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S. S. Skidelsky, 1741 N. 18th St., Philadelphia.
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Frank H. Kimberly, 631 Townsend Ave., New Haven, Ct.
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Chicago Carnation Co., Joliet, Ill.
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F. R. Pierson Co., Tarrytown, N. Y.
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CHRYSANTHEMUMS
Charles H. Totty, Madison, N. J.
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A. N. Pierson, Cromwell, Conn.
Chrysanthemum Stock Plants.
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Nathan Smith & Son, Adrian, Mich.
Novelty Chrysanthemums.
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W. W. Edgar Co., Waverley, Mass.
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CHRYSANTHEMUMS—Continued

Chrysanthemums, strong stock plants of Bonnaffon, Enguehard, Nonin, J. Jones, etc., \$4.00 per 100. Rooted cuttings of Clay Frick and Beatrice May, \$5.00 per 100. Frank Shearer & Son, Binghamton, N. Y.

Chrysanthemum stock plants. White—Clementine Tonset, Polly Rose, Bergmann, Ivory, Robinson, Alice Byron, Mrs. Eno, Jeanne Nonin. Pink—Pacific, A. J. Balfour, Wm. Duckham, Enguehard, Lady Hopetoun. Yellow—Monrovia, Sunshine, Halliday, Bonnaffon, Co. Appleton. 50c. per doz.; \$3.50 per 100. Stafford Floral Co., Stafford Springs, Conn.

CINERARIAS
John J. Coonan, Haverstraw, N. Y.
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CONIFERS
John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Bay State Nurseries, North Abington, Mass.
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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.
Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
For page see List of Advertisers.

We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.
Thomas Roland, Nahant, Mass.
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DAHLIAS
David Herbert & Son, Atco, N. J.
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J. L. Moore, Northboro, Mass.
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A. B. Davis & Son, Purcellville, Va.
For page see List of Advertisers.

DECORATIVE PLANTS
A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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Anton Schultze, College Point, N. Y.
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FERNS
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.
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Godfrey Aschmann, 1012 Ontario St., Philadelphia, Pa.
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John Scott, Brooklyn, N. Y.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

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FERTILIZERS

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
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Thos. J. Grey & Co.,
32 and 33 South Market St., Boston.
High-Grade Scotch Soot.
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FLORISTS' GREENING PINS

We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
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Koral Mfg. Co., 26 Hawley St., Boston.
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We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

FLORISTS SUPPLIES

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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Alex. Mann, Jr., Co., 1125 Polk St., San Francisco, Calif.
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FLOWERS BY TELEGRAPH

Park Floral Co., Denver, Colo.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Atlanta Floral Co., Atlanta, Ga.
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P. J. Hauswirth, 232 Michigan Ave., Chicago.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Thos F. Galvin, 124 Tremont St., Boston.
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Julius A. Zinn, 2 Beacon St., Boston.
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Houghton & Clark, 396 Boylston St., Boston.
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Sidney Hoffman, 59-61 Massachusetts Ave., Boston.
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J. Breitmeyer's Sons, Miami and Gratiot Aves., Detroit, Mich.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Wm. L. Rock Flower Co., 1116 Walnut St., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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FLOWERS BY TELEGRAPH —**Continued**

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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David Clarke's Sons, 2159-2141 Broadway, New York.
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W. H. Donohoe, 17 E. 28th St., New York.
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Alex. McConnell, New York.
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A. Warendorff, 1193 Broadway, New York.
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Robert G. Wilson, Fulton St. & Greene Av., Brooklyn, N. Y.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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FORCING ROOTS

Bobbink & Atkins, Rutherford, N. J.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
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Finest green and bronze Galax in any quantity at lowest figures. N. F. McCarthy, 84 Hawley St., Boston.

We Have It.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

GERANIUMS

R. Vincent Jr. & Sons Co., White Marsh, Md.
New and Standard Varieties.
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GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.
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J. L. Moore, Northboro, Mass.
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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

Gladiolus Bulbs, Groff's Hybrids, extra large and nice bulbs measuring as high as 10 and 12 inches in circumference, \$1.50 per 100; \$12.00 per 1000. Cash. E. A. Muchow, Clarence, N. Y.

Gladioli Colvilli Alba, \$1.00 per 100; \$7.50 per 1000. Gladioli Rosea, \$1.25 per 100; \$9.00 per 1000. America, light pink, immense flower, \$1.00 per doz.; \$7.50 per 100. Cushman Gladiolus Co., Sylvania, O.

GLASS

Boston Plate & Window Glass Co., Boston
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Standard Plate Glass Co., 26-30 Sudbury St., Boston.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, New York.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.
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I. Cassidy, 215-21 Randolph Ave., Jersey City, N. J.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.
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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

D. Iliffe, 49 Washington St., N., Boston
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouse, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

J. A. Payne, 260-274 Culver Ave., Jersey City, N. J.
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I. Cassidy, 215 to 221 Randolph Ave., Jersey City, N. J.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 113 W. 28th St., N. Y.
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Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
Fancy Ferns.

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Robert Groves, 127 Commercial St., Adams, Mass.

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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY HERBACEOUS PLANTS

Bay State Nurseries, N. Abington, Mass.
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New England Nurseries, Inc., Bedford, Mass.
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In writing to Advertisers kindly mention Horticulture

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Payne, 260-274 Culver Ave., Jersey
City, N. J.
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HOLLY

Berger Bros., 1305 Filbert St., Phila.
Holly and Holly Wreaths.

HOT-BED MATS

Wm. Elliott & Sons, 201 Fulton St.,
New York.
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HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset,
Mass.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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Foley Mfg. Co., between Western Ave. and
26th St., Chicago, Ill.

HYDRANGEA OTAKSA

Baur Floral Co., Erie, Pa.
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INSECTICIDES.

Andrew Wilson, Summit, N. J. Dept. 8.
Plant Oil.
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Carman's Anti-pest.
Perfection Chemical Co., Flushing, N. Y.
W. W. Rawson & Co., 5 Union St., Boston.
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Nicoticide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Owensboro, Ky.
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Nicotine Mfg. Co., St. Louis, Mo.
Nikoteen.

JAPANA CUT FLOWER HOLDER

M. V. Garnsey, 130 So. Walola Av., La
Grange, Ill. Dept. D.
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We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

KENTIAS

A. Leuthy & Co., Roslindale, Mass.
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Godfrey Aschmann, 1012 W. Ontario St.,
Philadelphia.
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LEADING RETAIL FLORISTS

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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St.,
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Atlanta Floral Co., Atlanta, Ga.
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P. J. Hauswirth, 232 Michigan Ave.,
Chicago.
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William J. Smyth, Michigan Ave. and 31st
St., Chicago.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Julius A. Zinn, 2 Beacon St., Boston.
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Houghton & Clark, 396 Boylston St.,
Boston.
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Sidney Hoffman, 59-61 Massachusetts Ave.,
Boston.
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J. Breitmeyer's Sons, Detroit, Mich.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Wm. L. Rock Flower Co., 1116 Walnut
St., Kansas City, Mo.
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Kansas City, Mo., Alpha Floral Co.

Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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Fred C. Weber, 4326 Olive St., St. Louis,
Mo.
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H. G. Eyres, 11 N. Pearl St., Albany, N. Y.
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David Clarke's Sons, 2139-2141 Broadway,
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W. H. Donohoe, 17 E. 28th St., New York.
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Alex. McConnell, New York.
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A. Warendorff, 1193 Broadway, New York.
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Robert G. Wilson, Fulton St. and Greene
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Thomas Young, Jr., New York.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

NEW AND RARE PLANTS

Rose Hill Nurseries, New Rochelle, N. Y.
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NICO-FUME

Kentucky Tobacco Product Co.,
Louisville, Ky.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
Specimen Pyramidal Box.
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The Conard & Jones Co., West Grove, Pa.
Hardy Stock.
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Bay State Nurseries, N. Abington, Mass.
Herbaceous Perennials, Hardy Ornamental
Trees.
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Cleary's Horticultural Co., 62 Vesey St.,
New York.
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P. Oudwerkerk, 216 Jane St., Weehawken
Heights, N. J.
Holland Nursery Stock for Forcing.
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Nursery Stock. N. F. McCarthy & Co.,
84 Hawley St., Boston, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.
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Ordonez Bros., Madison, N. J., Box 106.
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PALMS

A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.
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Kentia, Phoenix, etc., all sizes. Write
for new price list. Julius Roehrs Co.,
Rutherford, N. J.

PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse
lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Choice pansy plants, 50c. per 100; \$4.00
per 1000. Cash. Aug. Zirngelbel, Need-
ham, Mass.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEAT

Orchid peat, Rotted peat, Azalea peat,
Leaf-Mould, Live Sphagnum moss, Baled
Sphagnum moss, Green Clump moss, etc.
Jobbers' list on application. C. W. Brown-
ell & Co., Walden, N. Y.

PIPE AND FITTINGS

Foley Mfg. Co., between Western Ave. and
26th St., Chicago, Ill.

PIPE AND FITTINGS. Cast Iron and
Wrought Pipe, Valves, Elbows, Pipe Hooks,
Automatic Air Headers, etc. Lord &
Burnham, 1133 Broadway, N. Y.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PRIMULAS

Primroses, old-fashioned dble. white,
strong. Plants full of bloom, 10 cents.
Levant Cole, Battle Creek, Mich.

PRUNING SHEARS

Rhodes Mfg. Co., Grand Rapids, Mich.
Dept. R.

PYRIMIDAL BOX

Bay State Nurseries, N. Abington, Mass.
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RAFFIA

Samples free. Large assortment of
colors. R. H. Comey Co., Camden, N. J.,
or, 810-824 Washburn Ave., Chicago.

We Have It.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

RHODODENDRONS

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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ROSES

Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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Julius Roehrs Co., Rutherford, N. J.
Rambler Rose, Newport Fairy.
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New England Nurseries, Inc., Bedford, Mass.
Roses for Forcing.
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Bay State Nurseries, N. Abington, Mass.
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Bobbink & Atkins, Rutherford, N. J.
Pallades Nurseries, Sparkill, N. Y.
Crimson Rambler Roses.

400 varieties; own roots; summer grown.
Leadle Company, Springfield, Ohio.

Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Crimson Ramblers, extra strong, 3-yr., for forcing, at 9 cts.. Gilbert Costich, Rochester, N. Y.

SCALECIDE

B. G. Pratt Co., 11 Broadway, New York.
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SEEDS

T. J. Grey Co., 32 So. Market St., Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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A. T. Boddington, 342 W. 14th St., N. Y.
Vinca Seed.
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H. F. Michell Co., 1017 Market St., Phila.
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James Vick's Sons, Rochester, N. Y.
Vick's Superb Pansy Seed.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 E. 19th St., New York.
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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.
Giant Cyclamen Seed.
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C. C. Morse & Co., 48-56 Jackson St., San Francisco, Cal.
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H. E. Flske Seed Co., Faneuil Hall Sq., Boston.
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Braslan Seed Growers Co., San Jose Cal.
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O. V. Zangen, Hoboken, N. J.
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W. E. Marshall & Co., 146 W. 23d St., New York.
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R. Wiboltt, Nakskov, Denmark.
Snowball Cauliflower Seed.
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SMILAX

E. A. Beaven, Evergreen, Ala.
Southern Wild Smilax; Log Mosses.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

We Have It.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

Sphagnum Moss and Peat, fresh stock; Floral Moss a specialty. Guaranteed to give satisfaction. Write for prices. W. H. Stackhouse, prop., Box 11, Waretown, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Foley Mfg. Co., between Western Ave. and 26th St., Chicago, Ill.
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John A. Payne, 260-274 Culver Ave., Jersey City, N. J.
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VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1188 Broadway, N. Y.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

We Have Them.
Send for New Illustrated Catalogue.
H. Bayersdorfer & Co.,
1129 Arch St., Philadelphia, Pa.

WHOLESALE FLORISTS**Boston**

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl., Boston.
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FLOWER MARKET REPORTS.

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was another unfortunate. Mignonette for a minor subject was really up to a higher point in importance than we can remember. The gardenia and the cattleya set off with a bit of Farleyense were favorite subjects among the higher aristocracy and a great trade was done in these. Behind the scenes, however, we find the crops larger than the market could absorb, especially in cattelyas. But the cattleya is a good keeper and so there is no break as to prices. Cyripediums, cattelyas, and other orchids were never finer. Asparagus was far too abundant, the growers of these items being hard to hold back from the holiday excitement which is not for them particularly. A bright particular spot in the market was held by case holly and boxwood—also lycopodium and laurel wreathing. All that class of stock sold very well, barring possibly mistletoe. Poinsettia was a leader in the plant market, made up dwarf with ferns, but the market for cut poinsettias was mismanaged and at the wind-up swamped! Lorraine begonia and the cyclamens were great favorites. Ardisias and ericas came mostly from Julius Roehrs. The local growers seem to neglect these leading subjects. Those who wanted a cheap berried plant had to be satisfied with a solanum. Oranges were poorly fruited and not nicely colored this year and of course the trade in these was limited. Boston and Whittman ferns went well. Dracaena terminalis was a strong favorite. Tree holly, Box, dwarf firs, and such stock were conspicuous everywhere. The demand for these while only moderate was satisfactory. All told, while this year has not shown such a rip-roaring halcyon and vociferous balance sheet as the 1906 holiday, it was much better than the pessimists expected. We are pleased to report smiling faces in Philadelphia this Christmas morning and hope our brothers elsewhere have had the same good fortune.

"A guid New Year to one and a'
And money may you see."

G. C. W.

The Christmas season was ushered in with the usual bustle and business-like air. Every store is in holiday attire, being bright with poinsettias, holly and evergreen of every variety. Everything has been selling readily especially smaller plants, though the prices are by no means up to the standard of former years. Almost continued rainy weather for the past two weeks has thrown persons back in their buying and the consequence is, that every available clerk is rushed. An epidemic of colds and grip has lessened the force in nearly every store in the city. Everywhere the sidewalks are loaded with Christmas trees and small ornamental trees for decorating. It has been stated on authority that never before has there been such a demand for green of all kinds, from the small wreath to the largest tree. Full report on the cut flower trade will be made next week.

The holiday rush has begun. Prices are up pretty well. Wholesalers and retailers report busi-

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

MUNICIPAL CIVIL SERVICE COMMISSION,
299 Broadway.

AMENDED NOTICE.

New York, November 29, 1907.
PUBLIC NOTICE IS HEREBY GIVEN that the time for receiving applications for the position of GARDENER has been extended until 4 P. M., MONDAY, DECEMBER 30, 1907. The examination will be held on WEDNESDAY, JANUARY 22, 1908, at 10 A. M. The subjects and weights are Special, 6; Experience, 4. The provisions of clause 12 of Rule VII, to the effect that "no person who has entered any examination for appointment to a competitive position and failed therein or who has withdrawn therefrom, shall be admitted within nine months from the date of such examination to a new examination for the same position," is waived so far as it applies to this examination.

For further information apply to the Secretary.

F. A. SPENCER, Secretary.

WANTED—Two first-class commercial greenhouse assistants experienced in growing a general line of high class plants. Wages \$15 per week and room. Apply with references. Address Plants, care Horticulture.

HORTICULTURE needs a wide-awake representative in every town in the land. Good commission paid on advertising and subscriptions. If you are ambitious, write for terms.

SITUATIONS WANTED

SITUATION WANTED as working foreman on first-class place by sober, ambitious, young man with long experience on good wholesale and retail places. Good grower of roses, carnations, mums and general all-round stock. Familiar with greenhouse building, pipe fitting, both steam and hot water, capable of handling a large place. Steady position and good treatment expected. Not afraid of work. Married. References. State wages in first letter. If satisfactory would rent or buy place later. Address X. Y. Z., General Delivery, Bridgeport, Conn.

SITUATION WANTED by a reliable gardener, good grower of flowers, fruit and vegetables under glass and outside, fully experienced in all branches of work on a well kept private place; single, age 29. Address R., care HORTICULTURE.

FOR SALE

Suburban Florist Store FOR SALE CHEAP

Fine location for local trade; two years established. Fitted with ice chest, counters, etc., for immediate occupancy. A good chance for industrious party.

Address C. Care Horticulture, Boston.

FOR SALE—2000 feet second-hand 4-inch cast iron pipe with fittings. In perfect condition. Apply to T., care Horticulture Pub. Co.

ness prosperous. The market is well supplied with everything, but it seems as if there was going to be a shortage in home grown carnations before the holidays are over.

In ordering goods please add, "I saw it in HORTICULTURE."

Is Your Name In The Above
List? If Not, Why Not?

THE MASSACHUSETTS EXPERIMENT STATION.

Paper Read by Wm. P. Brooks, Director, at Massachusetts Conference of Rural Progress.

The agricultural experiment station as a regularly organized and recognized institution in Massachusetts dates from the year 1882. The present year, therefore, marks the completion of twenty-five years of work and it seems especially fitting that in connection with this convention which has the consideration of means of rural betterment for its prime object we should both review its past and consider its present and future.

Though the experiment station in this state as an organized entity took its origin but twenty-five years ago, any survey of the past which should fail to recognize the fact that in a very real sense the experiment station in Amherst is as old as the college would not only be glaringly incomplete, but would as well be a grave injustice to the able, devoted and noble men, living and dead, who under peculiar difficulties yet labored zealously for the advancement of the bounds of knowledge of the laws which underlie farm practice.

No one who knows him will be surprised to learn that in this work our dear old Dr. Goessmann took a most prominent part. To mention even all the subjects which engaged his attention and upon which he wrote and talked instructively would occupy a very large share of my allotted time.

Importance of Dr. Goessmann's Work.

In these days when the manufacture of sugar from the beet has become an established and rapidly growing industry in many parts of the United States, it is often forgotten to whose pioneer labors we have been so largely indebted. From his very earliest connection with the College we find Dr. Goessmann experimenting with the sugar beet and studying the question as to the possibility of a profitable beet sugar industry in this country. From 1870 to 1880 he was especially active in this direction and his published reports and papers were numerous. While the results of his investigations led Dr. Goessmann to strongly advocate the beet sugar industry in certain sections of the country and under the proper conditions, his discussions of the subject were always characterized by careful and temperate statements; and numerous early failures would have been avoided had the managers of the new undertakings more fully accepted Dr. Goessmann's conclusions.

Of more general importance to the country at large was Dr. Goessmann's work in relation to fertilizers. He determined the manurial value of a large number of refuse substances and by-products, and pointed out better methods of conserving and using not only these but home-made manures and recognized fertilizers as well. To him also belongs the honor of having suggested and taken the most important part in the passage of the first law providing for fertilizer control passed in the United States. It is not extravagant to say that this law brought order out of chaos and that with its subsequent amendments it has been worth untold sums to the farmers in

the protection against fraud which it has afforded, while so wisely was it shaped and administered that it has almost equally served the interests of the honest manufacturers and dealers. Upon the Massachusetts fertilizer laws have been modeled the laws in very many of the states, so that in this particular direction, Dr. Goessmann's influence has been felt all over the country.

Among other important investigations conducted by Dr. Goessmann prior to the organization of the experiment station, should be mentioned: his studies as to the effects of special fertilization upon the composition of fruits; his determination of the effects of girdling upon the quality of grapes; his recognition of the possible relation of fertilizers to certain plant diseases; his work in connection with the reclamation of the Green River Salt Marsh, in Marshfield; his determination of some of the chemical changes taking place in ensilage and his chemical examination of sorghum and its products. He was associated with Stockbridge in the investigations which led up to the theory of special fertilization which bears the name of the latter and in the study of the results of fertilizer application by means of the lysimeter.

Prof. Stockbridge's Experimental Work.

It is peculiarly appropriate at this time to recall to memory the fact that Prof. Stockbridge not only contributed lavishly of time, ability and physical energy for the uplift of agriculture, but that he gave substantial financial aid as well. In 1878, he gave to the College for experiments in agriculture the sum of \$1000. Next to Goessmann, Prof. Stockbridge undoubtedly took the most prominent part in the early experimental work at the College. His influence upon the agriculture of the state was great both because of unusual natural and acquired abilities and because he was from and of the closest and most sympathetic touch.

Prof. Stockbridge's experimental work which led up to the perfection of his system of special complete fertilizers for all our important crops is no doubt his best known accomplishment. The idea underlying this system was, I believe, taken from Ville, but the elaboration and perfection of the system were based upon Prof. Stockbridge's own experimental work. Prof. Stockbridge, too, as long ago as 1880, called attention to the usefulness of frequent shallow culture as a means of conserving soil moisture and was thus probably the very earliest to preach the "dust mulch" gospel. His experiments demonstrating the benefits of the "dust mulch," the sources of soil moisture, and the origin of dew were characterized by much originality and were carried out only by great sacrifices of personal ease.

President Clark's Influence.

William S. Clark, the first active president of the College, deserves also to be mentioned in the survey of the past. Although his work was less directly in touch with the farm than that of Goessmann and Stockbridge, it was nevertheless important and his influence upon others was perhaps of even

greater importance. President Clark was a man of tremendous enthusiasm and energy and withal he had the spirit of the investigator—the university spirit. To come in contact with him was an inspiration. No one can estimate the value of his influence in promoting throughout the institution among faculty as well as students the spirit of inquiry. President Clark's individual work during the early seventies showed marked originality and the presentation of the results of his investigations into some of the phenomena of plant life at a meeting of the State Board of Agriculture held in Barre elicited the warmest encomiums from Louis Agassiz, who was present, and the statement that had the Massachusetts Agricultural College done nothing throughout the period of its existence but produce that one paper that alone would be richly worth every dollar expended for the institution.

President Clark's experiments on the causes of the circulation of sap in plants, in which he was assisted in the device of the apparatus by Prof. Peabody and in which he enlisted the co-operation of a number of students, contributed important facts to the knowledge of that subject. He took a prominent part also in the sorghum experiments of the College which settled the question as to whether Massachusetts should look to that plant for its sugar.

Massachusetts Early in Recognizing the Needs of Agriculture.

The history of the experiment station as a regularly organized institution begins in 1882 when the Legislature framed an act establishing the Massachusetts Agricultural Experiment Station. Dr. Goessmann was made the first director. This office, by the way, he continued to fill throughout the entire period of the separate existence of this station. In thus establishing an agricultural experiment station in 1882, Massachusetts recognized the needs of agriculture some six years before Congress passed the Hatch Act providing for the establishing of such stations in each state and territory; but we had been preceded in such action by Connecticut, New Jersey, North Carolina and New York.

The Massachusetts Agricultural Experiment Station had no organic connection with the Massachusetts Agricultural College. The act establishing it provided for its independent management and support. The amounts appropriated were at first moderate, but its usefulness was soon demonstrated and the sums placed at its disposal were fairly adequate.

Very naturally the station was located in Amherst, where so much experimental work had already been done; and the needed land and buildings for a beginning were secured by a lease from the College for a nominal consideration. The independent existence of the Massachusetts or State Experiment Station as it came to be called to distinguish it from the station later established under act of Congress continued until 1895. The men most prominent in its work were Goessmann, Miles, Maynard, Humphrey and Lindsey.

(To be Continued.)

WILSON'S PLANT OIL

If you want to make money there is only one way. That is to have clean stock and the only way to get it is by using WILSON'S PLANT OIL.

New York Botanical Garden, Bronx Park, New York City, September 5, 1906.
Mr. Andrew Wilson—Having used your insecticide here, I can testify to its efficiency in destroying scale and other insects infesting plants.
Yours very truly,
GEO. A. SKENE.

Florham Farms, Madison, N. J., December 8, 1906.
Mr. Andrew Wilson:—Dear Sir—Your Plant Oil is certainly the most effective scale killer I have ever tried. Please send another five gallons.
Yours truly,
A. HERRINGTON.

PRICES: 1-2 pint cans, 25c; pints, 40c; quart, 75c; 2 quarts, \$1.25; gallon, \$2.00; five gallons, \$9.00. Cash with order.

ANDREW WILSON, Dept. 8,

SUMMIT, N. J.

Selling Agents for New England, R. & J. FARQUHAR & CO., 6 and 7 South Market St., Boston, Mass.

APPLE CROP REPORT FROM N. Y. STATE.

It has been some years since the farmers of western New York have had their apple crop so well cleaned up at this time of the year as they have this fall. This is owing to two reasons: the splendid weather conditions that have prevailed, and the fact that paring and cider apples have brought such good prices that the farmers have picked them up and sold them as fast as they could. While the crop has been light, there has been more clear profit realized to the growers than in a number of years past. One grower said recently that there is more money in 300 barrels of apples at \$3 a barrel than in 1200 barrels at \$1 a barrel; and this because of the cost of barrels and for picking and drawing them away.

When it came to the actual picking, the crop did not turn out as well as had been expected, and consequently the buyers who purchased orchards "by the lump" paid about all they were worth. As a usual thing the crop turns out to be greater than estimated, but the reverse was true this year. The apples sorted away more than was anticipated, but a factor that helped to offset was the unprecedented high prices paid during most of the season for parers and ciders. Paring apples brought as high as 80c. per 100 lbs.; cider apples brought 50c. Such prices were never known here before. Ciders are now bringing only 25c. per 100 lbs., however, as the buyers were getting so many more than they expected.

Most buyers have their storehouses well filled; and they expect to make a satisfactory profit, as outside of New York state the apple crop is very short. The market has weakened somewhat in the last three or four weeks on account of the stringency in the money market; \$3.00 per bbl. is the usual price for the general run of apples; exceptionally fine qualities, \$4 per bbl. The best apples this fall were the Northern Spies. The Baldwins and Greengings were under size, but the former variety was well colored. The comparatively small size is attributed to the late spring and the long continued drouth.


H. R. PEACHEY.

Irondequoit, N. Y.


The above article has been in type for three weeks but has been crowded out until now.

INCORPORATED.

D. Smith & Co., New York, whole-




"SCALECIDE"



SAVE YOUR TREES THIS FALL **DON'T WAIT TILL SPRING**

The chances are they'll be killed by San Jose Scale. Take time by the forelock—spray with **SCALECIDE**. It kills every insect it touches. Cheaper than Lime-Sulphur or any home-made mixture, and easier to apply. Non-corrosive, non-clogging, 92 percent oil, the largest amount with less water than is found in any spray yet discovered. We prove it. Order a 50-gallon barrel at \$25. Makes 800 or 1000 gallons costing 25c to 30c at any station in the U. S. east of Mississippi and north of Ohio Rivers. There's nothing cheaper. Send now for free, special booklet.

B. G. PRATT CO., Mfg. Chemists,
11 Broadway, New York City



sale florists; directors, D. Sokolsky, A. Rosenberg; capital, \$2,500.

Chase Nurseries, Geneva, N. Y.; G. M. Chase, T. H. Chew, L. G. Hoskins; capital, \$6,000.

Sterling Seed Co., Minneapolis, Minn.; J. E. Northrup, E. B. Northrup, C. C. Massie; capital, \$50,000.

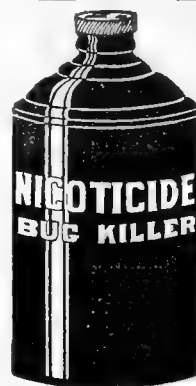
LIST OF PATENTS.

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- 873,030. Manure Spreader, Samuel K. Dennis and Frank W. Rice, Chicago, Ill., assignors to International Harvester Co., of New Jersey.
- 873,040. Beet Harvester. Moore Goodfellow, Columbus, Ohio, assignor of one-half to Joseph O. Dye, Columbus, Ohio.
- 873,229. Auto Steam Plow. Calvin G. Hampton, Ryde Station, Cal.
- 873,376. Wheeled Cultivator. Jacob S. Kendig, York, Pa., assignor to Keystone Farm Machine Company, York, Pa.
- 873,383. Weeder Attachment for Cultivators. Samuel A. McCune, New Waterford, Ohio.
- 873,465. Manure-Spreader. Charles W. Smith, Berlin, Iowa, assignor to The Waterloo Spreader Manufacturing Company, Waterloo, Iowa.

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- 873,830. Hedge Trimmer. Joseph A. Bechtold, New York, N. Y.
- 873,875. Orchard Cultivator. Jens Lingaas, San Francisco, Cal.
- 874,155. Seed Planter. Timothy L. Beaman, Knoxville, Tenn.
- 874,185. Harrow Attachment. Henry C. Green, Port, Okla.
- 874,205. Fertilizer Distributer. John J. Jones, Monticello, Ga.



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Bloom Saver**

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Write to

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OWENSBORO, KY.

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For the Garden, Orchard and Greenhouse.

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrip, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests, and keeps down filth. Circulars on application **\$1.50 per gallon**. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,
FLUSHING, N. Y.

Eastern Agents:

W. W. RAWSON & CO., 5 Union St. Boston, Mass.



**Cattle Manure
In Bags** Shredded or
Pulverized

Best and safest manure for florists and greenhouse use, absolutely pure, no waste, no danger. Write for circulars and prices.

The Pulverized Manure Co.,
31 Union Stock Yards, Chicago

In ordering goods please add, "I saw it in HORTICULTURE."

**The FLORISTS' HAIL ASSOCIATION
OF AMERICA, insurer of 28,000,000
sq. ft. of glass.** For particulars address
John C. Esler, Sec'y, Saddle River, N. J.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Fulton, N. Y.—G. W. Perkins, one house.

Mt. Holly, N. J.—J. W. Shinn, one house.
Racine, Wis. Mound cemetery, additions.

Mishawaka, Ind. Mark Blacksmidt, one house.

Hubbardston, Mass.—F. E. Collins, one house.

Schenectady, N. Y. Mrs. J. C. Haverly, one house.

Racine, Wis.—Park Board, addition to greenhouses.

Park View, Va.—Wheeling Greenhouse Co., range of houses.

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1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
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500 4 " " "	4.50	24 11 " " "	3.60
320 5 " " "	4.52	24 12 " " "	4.80
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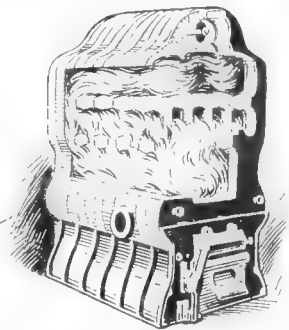
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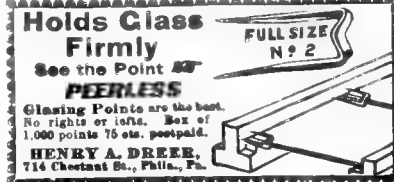
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